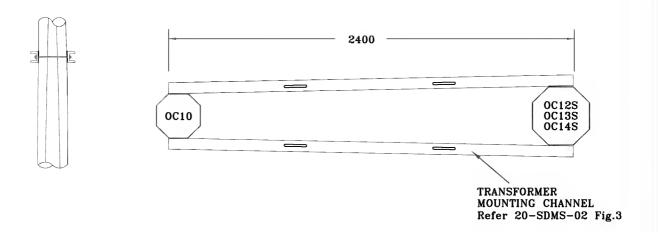


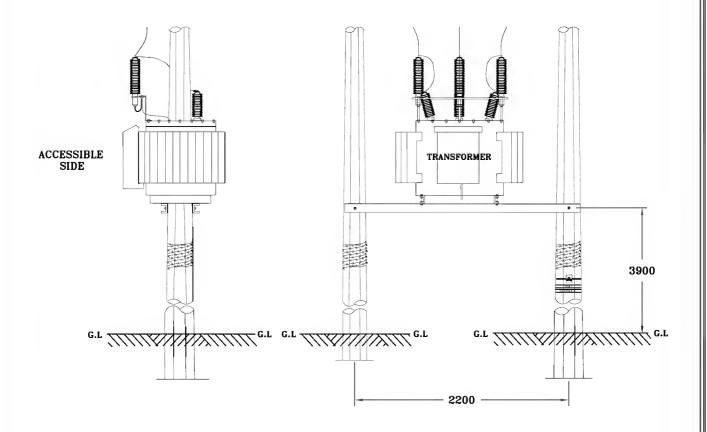
### الشركة السعودية للكهرباء

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SDCS-01

DATE: DECEMBER 2005G





DRW.01-POLE MOUNTED TRANSFORMER DETAILED ASSEMBLY STRUCTURE

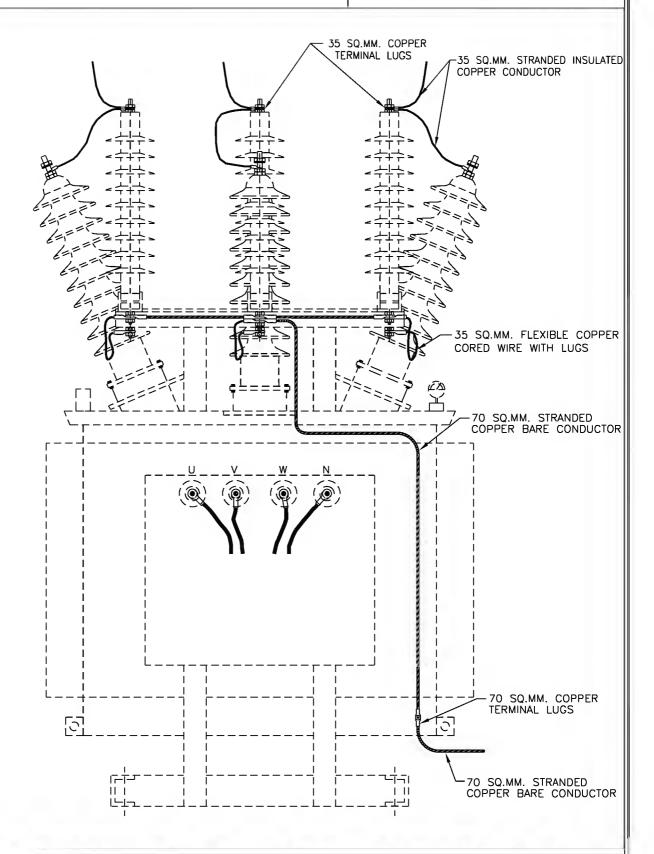


## الشركة السعودية للكهرباء

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SDCS-01

DATE: DECEMBER 2005G



DRW.02-POLE MOUNTED TRANSFORMER EARTHING DETAILED DRAWING

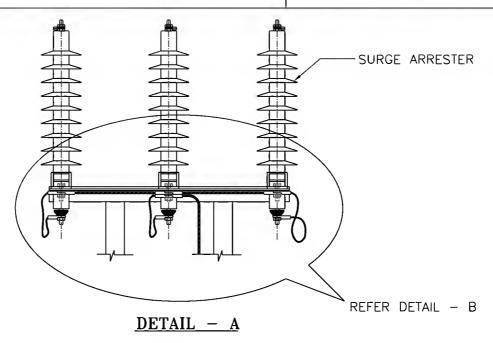


### الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

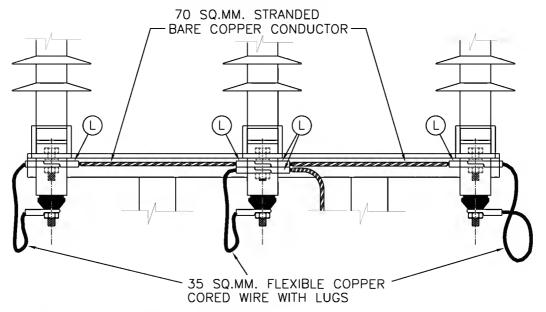
SDCS-01

DATE: DECEMBER 2005G





#### 35 SQ.MM. FLEXIBLE COPPER CORED WIRE WITH LUGS



L - 5Nos. 70SQ.MM COPPER TERMINAL LUGS

DETAIL - B

DRW.03-LIGHTING ARRESTER EARTHING DETAILED DRAWING



## الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

#### 200/300kVA PMT ON 12M POLE H-FRAME TRANSFORMER STRUCTURE

# الشركة السعودية للكهرباء Saudi Electricity Company SDCS-01 SEC DISTRIBUTION CONSTRUCTION STANDARDS DATE: DECEMBER 2005G 8 911 911 911 501 4967 1500 20) (8) (30) (51) 3500 3500 ACCESSIBLE SIDE 60(61) 900 (68)(59) 5968 1000 2000 2000 (2) 2000

DRW.04-200/300kVA TRANSFORMER PLATFORM-12M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S—12 Meter Steel Pale, HDG, Single Circuit	20-S0MS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crassarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut—Out Maunting Channel—C 125x65x65x6x2400mm L.G.	20-S0MS-02	Fig. 2
05	2	Transfarmer Maunting Channel-C 150x75x75x6.5x2400mm L.G.	20-S0MS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-S0MS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-S0MS-02	Fig. 4
08	7	Line Past Insulator	15-S0MS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rad for 67.44mm2 ACSR/AW (Quail)	20-S0MS-02	Fig. 38
11	3 Set	Preformed Line Post Insulotor Top Tie for Merlin ACSR With Armour	20-S0MS-02	Fig. 35
12	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	20-S0MS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-S0MS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
15	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
16	1	Shoulder Eye Balt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
17	1	Shaulder Eye Balt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
18	2	Eye Nut, M16	20-S0MS-02	Fig. 18
19	10	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 14
20	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
21	2	Machine Balt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
22	1	Machine Balt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
23	2	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
24	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Washer	20-S0MS-02	Fig. 15
26	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
27	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-S0MS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-S0MS-02	Fig. 6
29	1	Transformer, 200KVA.	51-S0MS-01	
30	3	Fuse Cut—Out (Camplete Assembly)	34-S0MS-01	
31	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-S0MS-02	Fig. 42
32	9	Terminal Lug far 35mm2 Cu.	12-S0MS-02	
33	3	Surge Arrester, 33kV	35-S0MS-01	
34	15M	70mm2 Capper Bare Canductar		
35	15M	Quail Canductor, 67.44mm2 ACSR/AW	10-S0MS-01	
36	9М	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-S0MS-01	
37	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-S0MS-02	

DRW.04A1/2-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	1CES
38	13	Terminal Lugs far 70mm2, Cu.	12-SOMS-01	
39	2	Crimpit Cu. Cannectar Far 70mm2.	20-S0MS-02	Fig. 45
40	1	Graund Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-S0MS-01	Clause 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band		Fig. 55
44	20	Buckle far Stainless Steel Strap Band	20-S0MS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.		
46	6M	Cable Aluminium— 4x300mm2 Main Incoming	11-S0MS-01	
47	4	Coble Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve for Cannecting Quadruplex 120mm2—120mm2	20-S0MS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-S0MS-02	Fig. 53
50	6М	Rigid PVC Sleeve for Stainless Steel Strap	20-S0MS-02	Fig. 55
51	4	Palyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. far 70mm O.D. Palyethelene Rigid Pipe		
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Palyethelene Rigid Pipe for Outgoing Cable.	20-S0MS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D far 4x300mm2 Incaming Cable.	20-S0MS-02	
55	36M	Quadruplex Cable, Al. 120mm2	11-S0MS-02	
56	1	Bi-Metalic cannectar, 2Balts type for 70mm2 Cu70mm2 Al.	20-S0MS-02	
57	4	Bi-Metalic cannector, 2Balts type for 70mm2 Cu120mm2 Al.	20-S0MS-02	
58	36м	Cu. Canductar, Insulated stranded 70mm2 Saft Drawn		
59	2 Set	Danger Sign Plate Camplete With Its Accessaries	20-S0MS-02	Fig. 49
60	27M	Anti-Climbing Divice, Barbed Wire	20-S0MS-02	Fig. 13
61	4	Buckle Type, Lacking Clip far Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pale Numbering Base Plate	20-S0MS-02	Fig. 51
63	1 Set	Pale Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-S0MS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	S0CS-01	Orw. 310
67	6	Phasing Plates Maunting Brackets	20-S0MS-02	Fig. 54
68	2 Set	Danger Sign Maunting Brackets	20-S0MS-02	Fig. 5D
69	16	Terminal Lugs far Cable 4X300mm2 Al.		Fig. 4
70	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.	12-SOMS-02	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT- Structure/200		Orw. 321
72	26M	Stay wire 7/3.25, 9.8mm Dia., HDG steel. UTS 65kN Min. (Optianal)		

DRW.04A2/2-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pale, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Poge 33
03	4	Crassarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Maunting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transfarmer Maunting Channel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Past Insulatar	15-SDMS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods far 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Prefarmed Armaur Rad far 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
11	3 Set	Preformed Line Post Insulotor Top Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Balt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shaulder Eye Balt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 18
19	10	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Balt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Balt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
29	1	Transfarmer, 300KVA.	51-SDMS-01	
30	3	Fuse Cut—Out (Camplete Assembly)	34-SDMS-01	
31	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug far 35mm2 Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm2 Capper Bare Canductar		
35	15M	Quail Canductor, 67.44mm2 ACSR/AW	10-SDMS-01	
36	9м	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-SDMS-01	
37	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

DRW.04B1/2-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	ICES
38	13	Terminal Lugs far 70mm2, Cu.	12-SOMS-01	
39	2	Crimpit Cu. Cannectar Far 70mm2.	20-S0MS-02	Fig. 45
40	1	Graund Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-S0MS-01	Clause 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-S0MS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-S0MS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-S0MS-03	
46	6М	Cable Aluminium— 4x300mm2 Main Incoming	11-S0MS-01	
47	4	Coble Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve far Cannecting Quadruplex 120mm2—120mm2	20-S0MS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-S0MS-02	Fig. 53
50	6M	Rigid PVC Sleeve far Stainless Steel Strap	20-S0MS-02	Fig. 55
51	4	Palyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. far 70mm O.D. Palyethelene Rigid Pipe	20-S0MS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Palyethelene Rigid Pipe far Outgaing Cable.	20-S0MS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D far 4x300mm2 Incaming Cable.	20-S0MS-02	
55	36M	Quadruplex Cable, Al., 120mm2	11-SOMS-02	
56	1	Bi-Metalic cannectar, 2Balts type for 70mm2 Cu70mm2 Al.	20-S0MS-02	
57	4	Bi-Metalic cannectar, 2Balts type for 70mm2 Cu120mm2 Al.	20-S0MS-02	
58	36м	Cu. Canductar, Insulated stranded 70mm2 Saft Drawn		
59	2 Set	Danger Sign Plate Camplete With Its Accessories	20-S0MS-02	Fig. 49
60	27M	Anti-Climbing Divice, Barbed Wire	20-S0MS-02	Fig. 13
61	4	Buckle Type, Lacking Clip far Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pale Numbering Base Plate	20-S0MS-02	Fig. 51
63	1 Set	Pale Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-S0MS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	S0CS-01	Orw. 310
67	6	Phasing Plates Maunting Brackets	20-S0MS-02	Fig. 54
68	2 Set	Danger Sign Maunting Brackets	20-S0MS-02	Fig. 5D
69	16	Terminal Lugs far Cable 4X300mm2 Al.	12-S0MS-02	Fig. 4
70	12	Terminal Lugs for Quadruplex Cable 4X120mm2 Al. 12-S0MS-02		Fig. 4
71	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-01	Orw. 321
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optianal)	S0CS-01	

DRW.04B2/2-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

# الشركة السعودية للكهرباء Saudi Electricity Company SDCS-01 SEC DISTRIBUTION CONSTRUCTION STANDARDS DATE: DECEMBER 2005G 8 911 911 911 4968 1500 20) (8) 72 3500 3500 ACCESSIBLE SIDE (60(61) 900 6959 5969 1000 2000 2000 (2) 2000 DRW.05-200/300kVA TRANSFORMER PLATFORM-12M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC12S-12 Meter Steel Pale, HDG, Single Circuit	20-S0MS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Poge 33
03	4	Crassarm—L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut—Out Maunting Channel—C 125x65x65x6x2400mm L.G.	20-S0MS-02	Fig. 2
05	2	Transfarmer Maunting Channel—C 150x75x75x6.5x2400mm L.G.	20-S0MS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-S0MS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-S0MS-02	Fig. 4
08	7	Line Post Insulator	15-S0MS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rad for 67.44mm2 ACSR/AW (Quail)	20-S0MS-02	Fig. 38
11	3 Set	Preformed Line Post Insulotor Side Tie for Merlin ACSR With Armour	20-S0MS-02	Fig. 35
12	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	20-S0MS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-S0MS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
15	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
16	1	Shoulder Eye Balt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
17	1	Shaulder Eye Balt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
18	2	Eye Nut, M16	20-S0MS-02	Fig. 18
19	10	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 14
20	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
21	2	Machine Balt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
22	1	Machine Balt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
23	2	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
24	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Washer	20-S0MS-02	Fig. 15
26	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
27	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-S0MS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-S0MS-02	Fig. 6
29	1	Transfarmer, 200KVA.	51-S0MS-01	
30	3	Fuse Cut-Out (Complete Assembly)	34-S0MS-01	
31	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-S0MS-02	Fig. 42
32	9	Terminal Lug far 35mm2 Cu.	12-S0MS-02	
33	3	Surge Arrester, 33kV	35-S0MS-01	
34	15M	70mm2 Capper Bare Canductar		
35	15М	Quail Canductor, 67.44mm2 ACSR/AW	10-S0MS-01	
36	9м	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-S0MS-01	
37	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-S0MS-02	0

DRW.05A1/2-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
38	13	Terminol Lugs for 70mm2, Cu.	12-SOMS-01	
39	2	Crimpit Cu. Connector For 70mm2.	20-S0MS-02	Fig. 45
40	1	Ground Wire Guord	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-S0MS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stoinless Steel Strop Bond	20-S0MS-02	Fig. 55
44	20	Buckle for Stoinless Steel Strop Bond	20-S0MS-02	Fig. 55
45	1	P.M.T. Cobinet 800A.	31-S0MS-03	
46	6М	Coble Aluminium— 4x300mm2 Moin Incoming		
47	4	Coble Tie	20-SDMS-02	Fig. 63
48	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm2-120mm2	20-S0MS-02	Fig. 34
49	2 Set	Phosing Plotes (A,B,C).	20-S0MS-02	Fig. 53
50	6М	Rigid PVC Sleeve for Stainless Steel Strop	20-S0MS-02	Fig. 55
51	4	Palyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weother Heod, Al. for 70mm O.D. Polyethelene Rigid Pipe	20-S0MS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Palyethelene Rigid Pipe for Outgoing Cable.	20-S0MS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm2 Incoming Coble.	20-S0MS-02	
55	36M	Quodruplex Coble, Al. 120mm2	11-S0MS-02	
56	1	Bi-Metolic connector, 2Bolts type for 70mm2 Cu70mm2 Al.	20-SOMS-02	
57	4	Bi-Metalic cannectar, 2Balts type for 70mm2 Cu120mm2 Al.	20-S0MS-02	
58	36м	Cu. Conductor, Insuloted stronded 70mm2 Soft Drown		
59	2 Set	Donger Sign Plote Complete With Its Accessories	20-S0MS-02	Fig. 49
60	27M	Anti-Climbing Divice, Borbed Wire	20-S0MS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Borbed Wire	20-SDMS-02	Fig. 13
62	1	Pole Numbering Bose Plote	20-S0MS-02	Fig. 51
63	1 Set	Pole Numbering Plotes	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Bose Plote	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plotes	20-S0MS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	S0CS-01	Orw. 310
67	1 Set	M.V-S.C One Stoy Assembly	S0CS-01	Orw. 312
68	6	Phosing Plotes Mounting Brockets	20-S0MS-02	Fig. 54
69	2 Set	Danger Sign Maunting Brackets		Fig. 50
70	16	Terminol Lugs for Coble 4X300mm2 Al.	12-S0MS-02	Fig. 4
71	12	Terminol Lugs for Quodruplex Coble 4X120mm2 Al.	12-S0MS-02	Fig. 4
72	26M	Stoy wire 7/3.25, 9.8mm Dio, HDG steel, UTS 65kN Min. (Optional)	S0CS-01	
73	1 Set	L.T One Stoy Assembly On PMT-Structure/200	SDCS-01	Drw. 321
74	15M	Stoy wire 7/4, 12mm Dio, HDG steel, UTS 101kN (Min.)	S0CS-01	

DRW.05A2/2-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

		DATE: DECEMBER 2003G				
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES		
01	1	OC12S-12 Meter Steel Pale, HDG, Single Circuit	2D-SDMS-D1	Page 34		
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	2D-SDMS-D1	Page 33		
03	4	Crassarm—L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1		
04	1	Fuse Cut-Out Maunting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2		
05	2	Transformer Maunting Channel-C 150x75x75x6.5x2400mm L.G.	2D-SDMS-D2	Fig. 3		
06	1	Brace-L 50x50x4x828mm L.G.	2D-SDMS-D2	Fig. 4		
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	2D-SDMS-D2	Fig. 4		
08	7	Line Past Insulator	15-SDMS-D1	Clause 4.2.8		
09	3 Set	Preformed Armour Rods for 170.5mm2 ACSR/AW (Merlin)	2D-SDMS-02	Fig. 38		
10	2 Set	Prefarmed Armaur Rad far 67.44mm2 ACSR/AW (Quail)	2D-SDMS-D2	Fig. 38		
11	3 Set	Preformed Line Post Insulotor Side Tie for Merlin ACSR With Armour	2D-SDMS-D2	Fig. 35		
12	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	2D-SDMS-D2	Fig. 35		
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	2D-SDMS-D2	Fig. 3D		
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16		
15	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-02	Fig. 16		
16	1	Shaulder Eye Balt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16		
17	1	Shaulder Eye Balt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16		
18	2	Eye Nut, M16	2D-SDMS-D2	Fig. 16		
19	10	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 14		
20	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15		
21	2	Machine Balt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15		
22	1	Machine Balt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15		
23	2	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15		
24	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15		
25	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Washer	2D-SDMS-D2	Fig. 15		
26	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15		
27	3	Parallel Graave Campressian Cannectar for Merlin — Quail	2D-SDMS-D2	Fig. 39		
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-D2	Fig. 6		
29	1	Transfarmer, 300KVA.	51-SDMS-D1			
30	3	Fuse Cut—Out (Complete Assembly)	34-SDMS-D1			
31	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	2D-SDMS-D2	Fig. 42		
32	9	Terminal Lug far 35mm2 Cu.	12-SDMS-D2			
33	3	Surge Arrester, 33kV	35-SDMS-D1			
34	15M	70mm2 Capper Bare Canductar				
35	15М	Quail Canductor, 67.44mm2 ACSR/AW	1D-SDMS-D1			
36	9М	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-SDMS-D1			
37	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02			
I						

DRW.05B1/2-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
38	13	Terminal Lugs far 70mm2, Cu.	12-S0MS-01	
39	2	Crimpit Cu. Cannectar Far 70mm2.	20-S0MS-02	Fig. 45
40	1	Graund Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspensian Insulatar	15-S0MS-01	Clouse 4.2.5
42	4	Clevis Eye Extensian		Fig. 21
43	15M	Stainless Steel Strap Band		Fig. 55
44	20	Buckle for Stainless Steel Strop Band	20-S0MS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.		
46	6М	Cable Aluminium— 4x300mm2 Main Incaming	11-S0MS-01	
47	4	Cable Tie	20-SDMS-02	Fig. 63
48	12	Insulated Type Sleeve far Cannecting Quadruplex 120mm2—120mm2	20-S0MS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-S0MS-02	Fig. 53
50	6м	Rigid PVC Sleeve far Stainless Steel Strap	20-S0MS-02	Fig. 55
51	4	Palyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. far 70mm O.D. Palyethelene Rigid Pipe	20-S0MS-02	
53	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. Palyethelene Rigid Pipe far Outgaing Cable	20-S0MS-02	
54	2	Flexible Pipe, 2 Mtr. 75mm I.D far 4x300mm2 Incaming Cable	20-S0MS-02	
55	36M	Quadruplex Cable, Al. 120mm2	11-S0MS-02	
56	1	Bi-Metalic cannectar, 2Balts type far 70mm2 Cu70mm2 Al.	20-S0MS-02	
57	4	Bi-Metalic cannectar, 2Balts type far 70mm2 Cu120mm2 Al.	20-S0MS-02	
58	36м	Cu. Canductar, Insulated stranded 70mm2 Saft Drawn		
59	2 Set	Danger Sign Plate Camplete With Its Accessaries	11-SOMS-01	Fig. 49
60	27M	Anti-Climbing Divice, Barbed Wire	20-S0MS-02	Fig. 13
61	4	Buckle Type, Lacking Clip for Barbed Wire	20-SDMS-02	Fig. 13
62	1	Pale Numbering Base Plate	20-S0MS-02	Fig. 51
63	1 Set	Pale Numbering Plates	20-SDMS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-S0MS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	S0CS-01	Orw. 310
67	1 Set	M.V-S.C One Stay Assembly	S0CS-01	Orw. 312
68	6	Phasing Plates Maunting Brackets		Fig. 54
69	2 Set	Danger Sign Maunting Brackets		Fig. 50
70	16	Terminal Lugs far Cable 4X300mm2 Al.		Fig. 4
71	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.		Fig. 4
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	S0CS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200		Drw. 321
74	15M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	S0CS-01	

DRW.05B2/2-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRPF4 LIGHT ANGLE STRUCTURE (6-15) WITH PMT CABINE

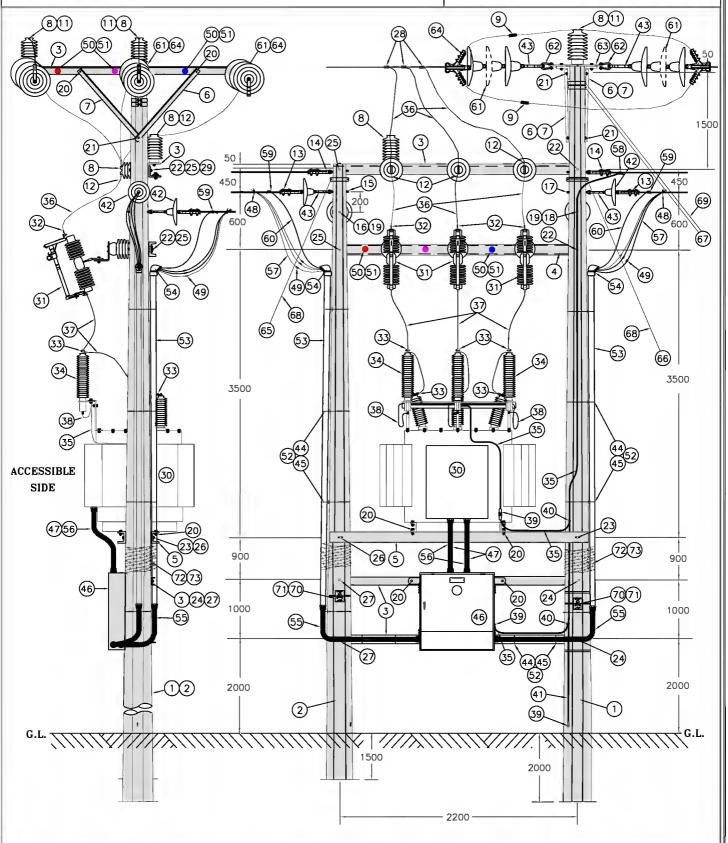


#### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.06-200/300kVA TRANSFORMER PLATFORM-12M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



### الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-S0MS-01	Page 34
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Poge 33
03	5	Crossorm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Chonnel-C 125x65x65x6x2400mm L.G.	20-S0MS-02	Fig. 2
05	2	Transformer Mounting Chonnel—C 150x75x75x6.5x2400mm L.G.	20-S0MS-02	Fig. 3
06	2	Broce-L 50x50x4x828mm L.G.	20-S0MS-02	Fig. 4
07	2	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-S0MS-02	Fig. 4
08	6	Line Post Insulotor	15-S0MS-01	Clause 4.2.8
09	3	Porollel Groove Compression Connecter for 170.5mm2 ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Porollel Groove Compression Connecter for 67.44mm2 ACSR/AW (Quail-Quail)	20-S0MS-02	Fig. 39
11	2 Set	Preformed Line Post Insulotor Top Tie for Merlin ACSR	20-S0MS-02	Fig. 35
12	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	20-S0MS-02	Fig. 35
13	4	Stroin Clamp, Stroight Line Deodend Type for Quadruplex	20-S0MS-02	Fig. 30
14	2	Strain Clomp, Stroight Line Deadend Type for Quoil ACSR	20-S0MS-02	Fig. 30
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-S0MS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
19	2	Eye Nut, M16	20-S0MS-02	Fig. 16
20	18	Mochine Bolt, M20x60mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 14
21	2	Mochine Bolt, M20x225mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
22	2	Mochine Bolt, M20x265mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
23	1	Mochine Bolt, M20x325mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
24	2	Mochine Bolt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Wosher	20-S0MS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flot Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
26	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
27	2	Mochine Bolt, M16x300mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
28	3	Porollel Groove Compression Connector for Merlin - Quoil	20-S0MS-02	Fig. 39
29	2	Eorthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 200KVA.	51-S0MS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-S0MS-01	
32	3	Terminal Plug For 67.44mm2 ACSR/AW (Quoil)	20-S0MS-02	Fig. 42
33	9	Terminal Lug for 35mm2 Cu.	12-SOMS-02	
34	3	Surge Arrester, 33kV	35-S0MS-01	
35	15M	70mm2 Copper Bore Conductor		
36	15M	Quail Conductor, 67.44mm2 ACSR/AW	10-S0MS-01	
37	9м	Cu. Conductor, Insuloted stronded 35mm2 Soft Drown	11-S0MS-01	

DRW.06A1/3-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	REFERENCES	
38	3	35mm2 Cu. Flexible Cored Wire with Lugs	2D-SDMS-D2		
39	13	Terminal Lugs for 70mm2, Cu.	12-SDMS-D1		
40	2	Crimpit Cu. Cannectar Far 70mm2.	20-SDMS-D2	Fig. 45	
41	1	Ground Wire Guord	20-SDMS-D2	Fig. 47	
42	4	Suspension Insulotor (Single)	15-SDMS-D1	Page.23	
43	10	Clevis Eye Extension	2D-SDMS-D2	Fig. 21	
44	15M	Stainless Steel Strap Band	2D-SDMS-D2	Fig. 55	
45	20	Buckle for Stoinless Steel Strop Bond	2D-SDMS-D2	Fig. 55	
46	1	P.M.T. Cobinet 800A.	31-SDMS-D3		
47	6М	Cable Aluminium— 4x300mm2 Moin Incaming	11-SDMS-D1		
48	4	Coble Tie	2D-SDMS-D2	Fig. 63	
49	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm2-120mm2	2D-SDMS-D2	Fig. 34	
50	2 Set	Phosing Plotes (A,B,C).	2D-SDMS-D2	Fig. 53	
51	6	Phosing Plotes Mounting Brockets	2D-SDMS-02	Fig. 54	
52	6М	Rigid PVC Sleeve for Stoinless Steel Strop	2D-SDMS-D2	Fig. 55	
53	4	Palyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness			
54	4	Weother Heod, Al. for 70mm O.D. PVC Rigid Pipe	2D-SDMS-D2		
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	2D-SDMS-D2		
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm2 Incoming Coble.	2D-SDMS-D2		
57	36м	Quodruplex Cable, 120mm2	11-SDMS-D2		
58	1	Bi-Metolic connector, 2Bolts type for 70mm2 Cu70mm2 Al.	2D-SDMS-D2		
59	4	Bi-Metolic cannector, 2Balts type for 70mm2 Cu120mm2 Al.	2D-SDMS-D2		
60	36M	Cu. Conductor, Insuloted stronded 70mm2 Soft Drown	11-SDMS-01		
61	6 Set	Suspension Insulotor	15-SDMS-D1	Page. 2.	
62	6	Anchor Shockle	2D-SDMS-D2	Fig. 2D	
63	3	Double Arming Plote, 100x12x700mm Lg.	2D-SDMS-D2	Fig. D7	
64	6	Stroin Clomp, 3U-Bolts type for Merlin	2D-SDMS-D2	Fig. 29	
65	1 Set	L.T One Stoy Assembly (Optionol)	SDCS-D1	Drw. 310	
66	1 Set	L.T One Stoy Assembly On PMT-Structure/200	SDCS-D1	Drw. 311	
67	1 Set	M.V-S.C Two Stoy Assembly	SDCS-D1	Drw. 31.	
68	26M	Stoy wire 7/3.25, 9.8mm Dio, HDG Steel UTS 65 Min. (Optional)	SDCS-01		
69	29М	Stoy wire 7/4, 12mm Dio, HDG Steel UTS 101kN Min.	SDCS-D1		
70	2 Set	Donger Sign Plote Complete With Its Accessories	2D-SDMS-D2	Fig. 49	
71	2 Set	Donger Sign Mounting Brockets	2D-SDMS-D2	Fig. 5D	
72	27M	Anti-Climbing Divice, Borbed Wire	2D-SDMS-D2	Fig. 13	
73	4	Buckle Type, Locking Clip for Borbed Wire	2D-SDMS-D2	Fig. 13	

DRW.06A2/3-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

			DATE: DECEMBER 2003G			
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERE	ICES	
74	16	Terminal Lugs far Cable 4X300mm2 Al.		12-SDMS-02	Fig. 4	
75	12	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.		12-SDMS-02	Fig. 4	
76	1	Pale Numbering Base Plate		20-SDMS-02	Fig. 51	
77	1 Set	Pale Numbering Plates		20-SDMS-02	Fig. 51	
78	1	Equipment Numbering Base Plate		20-SDMS-02	Fig. 52	
79	1 Set	Equipment Numbering Plates		20-SDMS-02	Fig. 52	

DRW.06A3/3-200kVA TRANSFORMER PLATFORM, 12M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



### الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC12S-12 Meter Steel Pale, HDG, Single Circuit	20-SDMS-01	Poge 34
02	1	OC10-10 Meter Steel Pale, HDG, LV Single Circuit	20-SDMS-01	Poge 33
03	5	Crassarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut—Out Maunting Channel—C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transfarmer Maunting Channel—C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Past Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Graave Campressian Cannecter for 170.5mm2 ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Graave Campressian Cannecter for 67.44mm2 ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Prefarmed Line Post Insulator Top Tie far Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Prefarmed Line Past Insulator Tap Tie far Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 16
15	1	Shaulder Eye Balt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shaulder Eye Balt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Balt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Balt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Balt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Balt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspensian Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 300KVA	51-SDMS-01	
31	3	Fuse Cut-Out (Camplete Assembly)	34-SDMS-01	
32	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug far 35mm2 Cu.	20-SDMS-02	Fig. 46
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm2 Capper Bare Canductar		
36	15M	Quail Canductar, 67.44mm2 ACSR/AW	10-SDMS-01	
37	9М	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-SDMS-01	

DRW.06B1/3-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
38	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-S0MS-02	
39	13	Terminal Lugs for 70mm2, Cu.	12-S0MS-01	
40	2	Crimpit Cu. Cannectar Far 70mm2.	20-S0MS-02	Fig. 45
41	1	Ground Wire Guord	20-SDMS-02	Fig. 47
42	4	Suspension Insulotor (Single)	15-S0MS-01	Page.23
43	10	Clevis Eye Extension	20-S0MS-02	Fig. 21
44	15M	Stainless Steel Strap Band	20-S0MS-02	Fig. 55
45	20	Buckle for Stoinless Steel Strop Bond	20-S0MS-02	Fig. 55
46	1	P.M.T. Cobinet 800A.	31-S0MS-03	
47	6М	Cable Aluminium— 4x300mm2 Moin Incaming	11-S0MS-01	
48	4	Coble Tie	20-S0MS-02	Fig. 63
49	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm2-120mm2	20-S0MS-02	Fig. 34
50	2 Set	Phosing Plotes (A,B,C).	20-S0MS-02	Fig. 53
51	6	Phosing Plotes Mounting Brockets	20-SDMS-02	Fig. 54
52	6М	Rigid PVC Sleeve for Stoinless Steel Strop	20-S0MS-02	Fig. 55
53	4	Palyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weother Heod, Al. for 70mm O.D. PVC Rigid Pipe	20-S0MS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-S0MS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm2 Incoming Coble.	20-S0MS-02	
57	36M	Quodruplex Cable, 120mm2	11-SOMS-02	
58	1	Bi-Metolic connector, 2Bolts type for 70mm2 Cu70mm2 Al.	20-S0MS-02	
59	4	Bi-Metolic cannectar, 2Balts type far 70mm2 Cu120mm2 Al.	20-S0MS-02	
60	36M	Cu. Conductor, Insuloted stronded 70mm2 Soft Drown	11-SDMS-01	
61	6 Set	Suspension Insulotor	15-S0MS-01	Page. 23
62	6	Anchor Shockle	20-S0MS-02	Fig. 20
63	3	Double Arming Plote, 100x12x700mm Lg.	20-S0MS-02	Fig. 07
64	6	Stroin Clomp, 3U-Bolts type for Merlin	20-S0MS-02	Fig. 29
65	1 Set	L.T One Stoy Assembly (Optional)	SOCS-01	Orw. 310
66	1 Set	L.T One Stoy Assembly On PMT-Structure/200	S0CS-01	Orw. 310
67	1 Set	M.V-S.C Two Stoy Assembly	SOCS-01	Orw. 313
68	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optianal)	S0CS-01	
69	29M	Stoy wire 7/4, 12mm Dio, HDG Steel UTS 101kN Min.	SOCS-01	
70	2 Set	Donger Sign Plote Complete With Its Accessories	20-S0MS-02	Fig. 49
71	2 Set	Donger Sign Mounting Brockets	20-S0MS-02	Fig. 50
72	27M	Anti-Climbing Divice, Borbed Wire	20-S0MS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Borbed Wire	20-SDMS-02	Fig. 13
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DRW.06B2/3-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



## الشركة السعودية للكهرباء

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DATE: DECEMBER 2005G

		DATE: DECEMBER 2000G			
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERENCES	
74	16	Terminal Lugs far Cable 4X300mm2 Al.		12-SDMS-02	Fig. 4
75	12	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.		12-SDMS-02	Fig. 4
76	1	Pale Numbering Base Plate		20-SDMS-02	Fig. 51
77	1 Set	Pale Numbering Plates		20-SDMS-02	Fig. 51
78	1	Equipment Numbering Base Plate		20-SDMS-02	Fig. 52
79	1 Set	Equipment Numbering Plotes		20-SDMS-02	Fig. 52

DRW.06B3/3-300kVA TRANSFORMER PLATFORM, 12M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

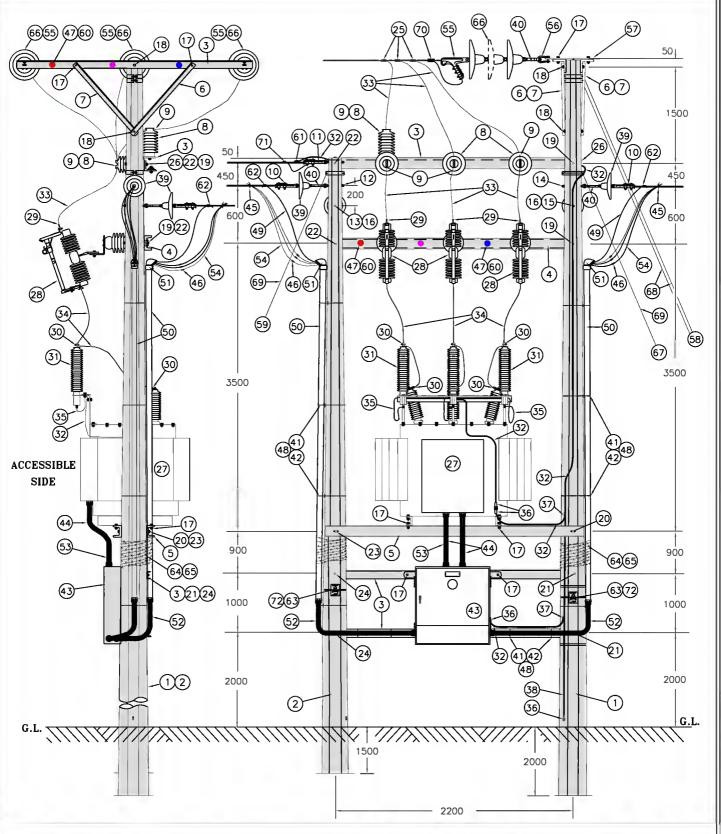


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DRW.07-200/300kVA TRANSFORMER PLATFORM-12M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



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#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

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DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
01	1	OC12S-12 Meter Steel Pale, HDG, Single Circuit	2D-SDMS-D1	Page 34
02	1	OC10-10 Meter Steel Pale, HDG, LV Single Circuit	2D-SDMS-D1	Page 33
03	5	Crassarm-L 100x100x12x2400mm L.G.	2D-SDMS-D2	Fig. 1
04	1	Fuse Cut—Out Maunting Channel—C 125x65x65x6x2400mm L.G.	2D-SDMS-D2	Fig. 2
05	2	Transfarmer Maunting Channel—C 150x75x75x6.5x2400mm L.G.	2D-SDMS-D2	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	2D-SDMS-D2	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	2D-SDMS-D2	Fig. 4
08	4	Line Past Insulator	15-SDMS-D1	Clause 4.2.8
09	4 Set	Prefarmed Line Past Insulator Tap Tie far Quail	20-SDMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	2D-SDMS-D2	Fig. 3D
11	1	Strain Clamp, Straight Line Deadend Type for Quail ACSR	2D-SDMS-D2	Fig. 3D
12	1	Shaulder Eye Balt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
13	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
14	1	Shaulder Eye Balt, M16x235mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
15	1	Shaulder Eye Balt, M16x265mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
16	2	Eye Nut M16	2D-SDMS-D2	Fig. 18
17	18	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
18	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
19	2	Machine Balt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
20	1	Machine Balt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
21	2	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
22	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
23	1	Machine Balt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
24	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
25	3	Parallel Graave Campressian Cannectar far Merlin — Quail	2D-SDMS-D2	Fig. 39
26	2	Earthwire Suspensian Support, L 110x110x10x150mm Lg.	2D-SDMS-D2	Fig. 5
27	1	Transfarmer, 200KVA.	51-SDMS-D1	
28	3	Fuse Cut-Out (Camplete Assembly)	34-SDMS-D1	
29	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
30	9	Terminal Lug far 35mm2 Cu.	2D-SDMS-D2	Fig. 46
31	3	Surge Arrester, 33kV	35-SDMS-D1	
32	17M	70mm2 Capper Bare Canductar		
33	15M	Quail Canductar, 67.44mm2 ACSR/AW	1D-SDMS-D1	
34	9м	Cu. Canductar, Insulated Stranded 35mm2 Saft Drawn	11-SDMS-D1	
35	3	35mm2 Cu. Flexible Cared Wire with Lugs	20-SDMS-D2	
36	13	Terminal Lug for 70mm2 Cu.	12-SDMS-D1	
37	2	Crimpit Cu. Cannectar far 70mm2	20-SDMS-02	Fig. 45

DRW.07A1/3-200kVA TRANSFORMER PLATFORM-12M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
38	1	Ground Wire Guord	20-S0MS-02	Fig. 47
39	4	Suspension Insulotor (Single)	15-S0MS-01	
40	7	Clevis Eye Extension	20-S0MS-02	Fig. 21
41	15M	Stoinless Steel Strop Bond	20-S0MS-02	Fig. 55
42	20	Buckle for Stoinless Steel Strop Bond	20-SDMS-02	Fig. 55
43	1	P.M.T. Cobinet 800A	31-S0MS-03	
44	6М	Coble - 4x300mm2 Al. Moin Incoming	11-SOMS-01	
45	4	Coble Tie	20-SDMS-02	Fig. 63
46	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm2-120mm2	20-SDMS-02	Fig. 34
47	2 Set	Phosing Plotes (A,B,C)	20-S0MS-02	Fig. 53
48	6М	Rigid PVC Sleeve for Stoinless Steel Strop	20-S0MS-02	Fig. 55
49	36M	Cu. Conductor Insuloted, stronded 70mm2 Soft Drown	11-SOMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weother Heod, Al. for 70mm O.D. PVC Rigid Pipe	20-S0MS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Coble.	20-S0MS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm2 Incoming Coble	20-S0MS-02	
54	36M	Quodruplex Coble, 120mm2	11-SOMS-02	
55	3	Stroin Clomp, 3 U-Bolts for Merlin	20-S0MS-02	Fig. 29
56	3	Anchor Shockle	20-S0MS-02	Fig. 20
57	3	Double Arming Plote	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stoy Assembly	S0CS-01	Orw. 313
59	1 Set	L.T One stoy Assembly (Optional)	SDCS-01	Orw. 310
60	6	Phosing Plotes Mounting Brockets	20-S0MS-02	Fig. 54
61	1	Bi-Mettolic Connector, 2 Bolt Type for 70mm2 Cu70mm2 Al.	20-S0MS-02	
62	4	Bi-Mettolic Connector, 2 Bolt Type for 70mm2 Cu120mm2 Al.	20-S0MS-02	
63	2 Set	Donger Sign Plote Complete With Its Accessories	20-S0MS-02	Fig. 49
64	27M	Anti-Climbing Divice, Borbed Wire	20-S0MS-02	Fig. 13
65	4	Buckle Type, Locking Clip for Borbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulotor	15-S0MS-01	
67	1 Set	L.T One stoy Assembly On PMT-Structure/200	S0CS-01	Orw. 321
68	29M	Stoy wire 7/4, 12mm Dio, HDG Steel UTS 101kN Min.	S0CS-01	
69	26M	Stoy wire 7/3.25, 9.8mm Dio, HDG Steel UTS 65 Min. (Optionol)	SOCS-01	
70	3	Porollel Groove Clomp for 3 U-Bolts type for Merlin ACSR	20-S0MS-02	Fig. 39
71	1	Porollel Groove Clomp for two Bolts type for Quoil ACSR	20-S0MS-02	Fig. 39
72	2 Set	Donger Sign Mounting Brockets	20-S0MS-02	Fig. 50

DRW.07A2/3-200kVA TRANSFORMER PLATFORM-12M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



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		DATE: DECEMBER 2005G				
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFEREN	ICES	
73	1	Pale Numbering Base Plate		20-SDMS-02	Fig. 51	
74	1 Set	Pale Numbering Plates		20-SDMS-02	Fig. 51	
75	1	Equipment Numbering Base Plate		20-SDMS-02	Fig. 52	
76	1 Set	Equipment Numbering Plates		20-SDMS-02	Fig. 52	
77	16	Terminal Lugs for Cable 4X300mm2 Al.		12-SDMS-02	Fig. 4	
78	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.		12-SDMS-02	Fig. 4	
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DRW.07A3/3-200kVA TRANSFORMER PLATFORM-12M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC12S-12 Meter Steel Pale, HDG, Single Circuit	20-S0MS-01	Page 34
02	1	OC10-10 Meter Steel Pale, HDG, LV Single Circuit	20-S0MS-01	Page 33
03	5	Crassarm-L 100x100x12x2400mm L.G.	20-S0MS-02	Fig. 1
04	1	Fuse Cut—Out Maunting Channel—C 125x65x65x6x2400mm L.G.	20-S0MS-02	Fig. 2
05	2	Transfarmer Maunting Channel—C 150x75x75x6.5x2400mm L.G.	20-S0MS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-S0MS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-S0MS-02	Fig. 4
08	4	Line Past Insulatar	15-S0MS-01	Clause 4.2.8
09	4 Set	Preformed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
11	1	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-S0MS-02	Fig. 30
12	1	Shaulder Eye Balt, M16x155mm W/Nut, 1 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 16
13	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 16
14	1	Shaulder Eye Balt, M16x235mm W/Nut, 1 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 16
15	1	Shaulder Eye Balt, M16x265mm W/Nut, 1 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 16
16	2	Eye Nut M16	20-S0MS-02	Fig. 18
17	18	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 14
18	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
19	2	Machine Balt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
20	1	Machine Balt, M20x325mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
21	2	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
22	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
23	1	Machine Balt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
24	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
25	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-S0MS-02	Fig. 39
26	2	Earthwire Suspensian Suppart, L 110x110x10x150mm Lg.	20-S0MS-02	Fig. 5
27	1	Transfarmer, 300KVA.	51-S0MS-01	
28	3	Fuse Cut—Out (Camplete Assembly)	34-S0MS-01	
29	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-S0MS-02	Fig. 42
30	9	Terminal Lug far 35mm2 Cu.	20-S0MS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-S0MS-01	
32	17M	70mm2 Capper Bare Canductar		
33	15M	Quail Canductor, 67.44mm2 ACSR/AW	10-S0MS-01	
34	9м	Cu. Canductar, Insulated Stranded 35mm2 Saft Drawn	11-S0MS-01	
35	3	35mm2 Cu. Flexible Cared Wire with Lugs	20-S0MS-02	
36	13	Terminal Lug far 70mm2 Cu.	12-S0MS-01	
37	2	Crimpit Cu. Cannectar far 70mm2	20-SDMS-02	Fig. 45

DRW.07B1/3-300kVA TRANSFORMER PLATFORM-12M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
38	1	Ground Wire Guord	20-S0MS-02	Fig. 47
39	4	Suspension Insulotor (Single)	15-S0MS-01	
40	7	Clevis Eye Extension	20-S0MS-02	Fig. 21
41	15M	Stoinless Steel Strop Bond	20-S0MS-02	Fig. 55
42	20	Buckle for Stoinless Steel Strop Bond	20-SDMS-02	Fig. 55
43	1	P.M.T. Cobinet 800A	31-S0MS-03	
44	6М	Coble - 4x300mm2 Al. Moin Incoming	11-SOMS-01	
45	4	Coble Tie	20-SDMS-02	Fig. 63
46	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm2-120mm2	20-SDMS-02	Fig. 34
47	2 Set	Phosing Plotes (A,B,C)	20-S0MS-02	Fig. 53
48	6М	Rigid PVC Sleeve for Stoinless Steel Strop	20-S0MS-02	Fig. 55
49	36M	Cu. Conductor Insuloted, stronded 70mm2 Soft Drown	11-SOMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weother Heod, Al. for 70mm O.D. PVC Rigid Pipe	20-S0MS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Coble.	20-S0MS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm2 Incoming Coble	20-S0MS-02	
54	36M	Quodruplex Coble, 120mm2	11-SOMS-02	
55	3	Stroin Clomp, 3 U-Bolts for Merlin	20-S0MS-02	Fig. 29
56	3	Anchor Shockle	20-S0MS-02	Fig. 20
57	3	Double Arming Plote	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stoy Assembly	S0CS-01	Orw. 313
59	1 Set	L.T One stoy Assembly (Optional)	SDCS-01	Orw. 310
60	6	Phosing Plotes Mounting Brockets	20-SOMS-02	Fig. 54
61	1	Bi-Mettolic Connector, 2 Bolt Type for 70mm2 Cu70mm2 Al.	20-S0MS-02	
62	4	Bi-Mettolic Connector, 2 Bolt Type for 70mm2 Cu120mm2 Al.	20-S0MS-02	
63	2 Set	Donger Sign Plote Complete With Its Accessories	20-S0MS-02	Fig. 49
64	27M	Anti-Climbing Divice, Borbed Wire	20-S0MS-02	Fig. 13
65	4	Buckle Type, Locking Clip for Borbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulotor	15-S0MS-01	
67	1 Set	L.T One stoy Assembly On PMT-Structure/200	S0CS-01	Orw. 321
68	29M	Stoy wire 7/4, 12mm Dio, HDG Steel UTS 101kN Min.	S0CS-01	
69	26M	Stoy wire 7/3.25, 9.8mm Dio, HDG Steel UTS 65 Min. (Optional)	S0CS-01	
70	3	Porollel Groove Clomp for 3 U-Bolts type for Merlin ACSR	20-S0MS-02	Fig. 39
71	1	Porollel Groove Clomp for two Bolts type for Quoil ACSR	20-S0MS-02	Fig. 39
72	2 Set	Donger Sign Mounting Brockets	20-S0MS-02	Fig. 50

DRW.07B2/3-300kVA TRANSFORMER PLATFORM-12M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



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	DATE: DECEMBER 2005G			
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
73	1	Pale Numbering Base Plate	20-SDMS-02	Fig. 51
74	1 Set	Pale Numbering Plates	20-SDMS-02	Fig. 51
75	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
76	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
77	16	Terminal Lugs far Cable 4X300mm2 Al.	12-SDMS-02	Fig. 4
78	12	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
	<u> </u>			<u> </u>

DRW.07B3/3-300kVA TRANSFORMER PLATFORM-12M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



الشركة السعودية للكهرباء

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SDCS-01

DATE: DECEMBER 2005G

#### 200/300kVA PMT ON 13M POLE H-FRAME TRANSFORMER STRUCTURE

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## الشركة السعودية للكهرباء

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SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC13S-13 Meter Steel Pale, HDG, Single Circuit	20-S0MS-01	Page 34
02	1	OC10-10 Meter Steel Pale, HDG, LV Single Circuit	20-S0MS-01	Page 33
03	4	Crassarm-L 100x100x12x2400mm L.G.	20-S0MS-02	Fig. 1
04	1	Fuse Cut-Out Maunting Channel-C 125x65x65x6x2400mm L.G.	20-S0MS-02	Fig. 2
05	2	Transfarmer Maunting Channel-C 150x75x75x6.5x2400mm L.G.	20-S0MS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Past Insulatar	15-SDMS-01	Clouse 4.2.8
09	3 Set	Prefarmed Armaur Rads far 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Prefarmed Armaur Rad far 67.44mm2 ACSR/AW (Quail)	20-S0MS-02	Fig. 38
11	3 Set	Prefarmed Line Past Insulator Tap Tie far Merlin ACSR With Armaur	20-SDMS-02	Fig. 35
12	4 Set	Prefarmed Line Past Insulatar Tap Tie far Quail	20-S0MS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type far Quadruplex	20-S0MS-02	Fig. 30
14	1	Shaulder Eye Balt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
15	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
16	1	Shaulder Eye Balt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
17	1	Shaulder Eye Balt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-S0MS-02	Fig. 18
19	10	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 14
20	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
21	2	Machine Balt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
23	2	Machine Balt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
24	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
25	1	Machine Balt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
26	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
27	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-S0MS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-S0MS-02	Fig. 6
29	1	Transfarmer, 200KVA.	51-S0MS-01	
30	3	Fuse Cut-Out (Camplete Assembly)	34-S0MS-01	
31	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-S0MS-02	Fig. 42
32	9	Terminal Lug far 35mm2 Cu.	12-S0MS-02	
33	3	Surge Arrester, 33kV	35-S0MS-01	
34	15M	70mm2 Capper Bare Canductar		
35	18M	Quail Canductar, 67.44mm2 ACSR/AW	10-S0MS-01	
36	9м	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-S0MS-01	
37	3	35mm2 Cu. Flexible Cared Wire with Lugs	20-S0MS-02	

DRW.08A1/2-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
38	13	Terminal Lugs far 70mm2, Cu.	12-SDMS-D1	
39	2	Crimpit Cu. Cannectar Far 70mm2.	2D-SDMS-D2	Fig. 45
40	1	Graund Wire Guard	2D-SDMS-D2	Fig. 47
41	4	Suspension Insulator	15-SDMS-D1	Clause 4.2.5
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21
43	15M	Stainless Steel Strap Band	2D-SDMS-D2	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-D3	
46	6М	Cable Aluminium— 4x300mm2 Main Incaming	11-SDMS-D1	
47	4	Cable Tie	2D-SDMS-D2	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm2—120mm2	20-SDMS-D2	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	2D-SDMS-D2	Fig. 53
50	6М	Rigid PVC Sleeve far Stainless Steel Strap	2D-SDMS-D2	Fig. 55
51	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	2D-SDMS-D2	
52	4	Weather Head, Al. far 70mm O.D. Palyethelene Rigid Pipe	2D-SDMS-D2	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethelene Rigid Pipe for Outgoing Coble.	20-SDMS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D far 4x300mm2 Incaming Cable.	20-SDMS-02	
55	36M	Quadruplex Cable, Al. 120mm2	11-SDMS-D2	
56	1	Bi-Metalic cannectar, 2Balts type far 70mm2 Cu70mm2 Al.	2D-SDMS-D2	
57	4	Bi-Metalic cannectar, 2Balts type far 70mm2 Cu120mm2 Al.	2D-SDMS-D2	
58	36м	Cu. Canductar, Insulated stranded 70mm2 Saft Drawn		
59	2 Set	Danger Sign Plate Camplete With Its Accessaries	2D-SDMS-D2	Fig. 49
60	28M	Anti-Climbing Divice, Barbed Wire	2D-SDMS-D2	Fig. 13
61	4	Buckle Type, Lacking Clip far Barbed Wire	2D-SDMS-D2	Fig. 13
62	1	Pale Numbering Base Plate	2D-SDMS-D2	Fig. 51
63	1 Set	Pale Numbering Plates	2D-SDMS-D2	Fig. 51
64	1	Equipment Numbering Base Plate	2D-SDMS-D2	Fig. 52
65	1 Set	Equipment Numbering Plates	20-SDMS-D2	Fig. 52
66	1 Set	L.T One Stoy Assembly (Optionol)	SDCS-D1	Drw. 310
67	6	Phasing Plates Maunting Brackets	2D-SDMS-D2	Fig. 54
68	2 Set	Danger Sign Maunting Brackets	20-SDMS-D2	Fig. 50
69	16	Terminal Lugs for Cable 4X300mm2 Al.	12-SDMS-D2	Fig. 4
70	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.	12-SDMS-D2	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT— Structure/200	SDCS-D1	Drw. 32
72	26M	Stay wire 7/3.25, 9.8mm Dia., HDG steel. UTS 65kN Min. (Optional)	SDCS-D1	

DRW.08A2/2-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

-								
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERENCES				
01	1	OC13S-13 Meter Steel Pale, HDG, Single Circuit	20-S0MS-01	Page 34				
02	1	OC10-10 Meter Steel Pale, HDG, LV Single Circuit	20-S0MS-01	Page 33				
03	4	Crossorm-L 100x100x12x2400mm L.G.	20-S0MS-02	Fig. 1				
04	1	Fuse Cut-Out Mounting Chonnel-C 125x65x65x6x2400mm L.G.	20-S0MS-02	Fig. 2				
05	2	Transformer Mounting Chonnel-C 150x75x75x6.5x2400mm L.G.	20-S0MS-02	Fig. 3				
06	1	Broce-L 50x50x4x828mm L.G.	20-S0MS-02	Fig. 4				
07	1	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-S0MS-02	Fig. 4				
08	7	Line Post Insulotor	15-S0MS-01	Clause 4.2.8				
09	3 Set	Prefarmed Armaur Rads far 170.5mm2 ACSR/AW (Merlin)	20-S0MS-02	Fig. 38				
10	2 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38				
11	3 Set	Preformed Line Post Insulotor Top Tie for Merlin ACSR With Armour	20-S0MS-02	Fig. 35				
12	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	20-S0MS-02	Fig. 35				
13	4	Stroin Clamp, Stroight Line Deodend Type for Quadruplex	20-S0MS-02	Fig. 30				
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-S0MS-02	Fig. 16				
15	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16				
16	1	Shaulder Eye Balt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16				
17	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16				
18	2	Eye Nut, M16	20-S0MS-02	Fig. 18				
19	10	Mochine Bolt, M20x60mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 14				
20	2	Mochine Bolt, M20x225mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15				
21	2	Mochine Bolt, M20x265mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15				
22	1	Machine Balt, M20x365mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-SDMS-02	Fig. 15				
23	2	Machine Bolt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15				
24	2	Machine Bolt, M16x165mm With Nut, 2 Flot Woshers & 1 Spring Washer	20-S0MS-02	Fig. 15				
25	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15				
26	2	Mochine Bolt, M16x300mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15				
27	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-S0MS-02	Fig. 39				
28	2	Eorthwire Support Plate, L 110x110x10x150mm L.G.	20-S0MS-02	Fig. 6				
29	1	Transformer, 300KVA.	51-S0MS-01					
30	3	Fuse Cut-Out (Complete Assembly)	34-S0MS-01					
31	3	Terminal Plug For 67.44mm2 ACSR/AW (Quoil)	20-SDMS-02	Fig. 42				
32	9	Terminal Lug for 35mm2 Cu.	12-S0MS-02					
33	3	Surge Arrester, 33kV	35-SDMS-01					
34	15M	70mm2 Copper Bore Conductor						
35	18M	Quail Conductor, 67.44mm2 ACSR/AW	10-S0MS-01					
36	9М	Cu. Conductor, Insuloted stronded 35mm2 Soft Drown	11-S0MS-01					
37	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-S0MS-02					

DRW.08B1/2-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERENCES	
38	13	Terminal Lugs far 70mm2, Cu.	12-SDMS-D1		
39	2	Crimpit Cu. Cannectar Far 70mm2.	2D-SDMS-D2	Fig. 45	
40	1	Graund Wire Guard	2D-SDMS-D2	Fig. 47	
41	4	Suspension Insulator	15-SDMS-D1	Clause 4.2.5	
42	4	Clevis Eye Extension	20-SDMS-02	Fig. 21	
43	15M	Stainless Steel Strap Band	2D-SDMS-D2	Fig. 55	
44	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55	
45	1	P.M.T. Cabinet 800A.	31-SDMS-D3		
46	6М	Cable Aluminium— 4x300mm2 Main Incaming	11-SDMS-D1		
47	4	Cable Tie	2D-SDMS-D2	Fig. 63	
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm2-120mm2	20-SDMS-D2	Fig. 34	
49	2 Set	Phasing Plates (A,B,C).	2D-SDMS-D2	Fig. 53	
50	6М	Rigid PVC Sleeve for Stainless Steel Strap	2D-SDMS-D2	Fig. 55	
51	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	2D-SDMS-D2		
52	4	Weather Head, Al. far 70mm O.D. Palyethelene Rigid Pipe	2D-SDMS-D2		
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethelene Rigid Pipe for Outgoing Coble.	20-SDMS-02		
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D far 4x300mm2 Incaming Cable.	20-SDMS-02		
55	36M	Quadruplex Cable, Al., 120mm2	11-SDMS-D2		
56	1	Bi-Metalic cannectar, 2Balts type far 70mm2 Cu70mm2 Al.	2D-SDMS-D2		
57	4	Bi-Metalic cannectar, 2Balts type for 70mm2 Cu120mm2 Al.	2D-SDMS-D2		
58	36м	Cu. Canductar, Insulated stranded 70mm2 Saft Drawn			
59	2 Set	Danger Sign Plate Camplete With Its Accessaries	2D-SDMS-D2	Fig. 49	
60	28M	Anti-Climbing Divice, Barbed Wire	2D-SDMS-D2	Fig. 13	
61	4	Buckle Type, Lacking Clip far Barbed Wire	2D-SDMS-D2	Fig. 13	
62	1	Pale Numbering Base Plate	2D-SDMS-D2	Fig. 51	
63	1 Set	Pale Numbering Plates	2D-SDMS-D2	Fig. 51	
64	1	Equipment Numbering Base Plate	2D-SDMS-D2	Fig. 52	
65	1 Set	Equipment Numbering Plates	20-SDMS-D2	Fig. 52	
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-D1	Drw. 310	
67	6	Phasing Plates Maunting Brackets	2D-SDMS-D2	Fig. 54	
68	2 Set	Danger Sign Maunting Brackets	20-SDMS-D2	Fig. 50	
69	16	Terminal Lugs for Cable 4X300mm2 Al.	12-SDMS-D2	Fig. 4	
70	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.	12-SDMS-D2	Fig. 4	
71	1 Set	L.T One Stay Assembly On PMT-Structure/200	SDCS-D1	Drw. 321	
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optianol)	SDCS-D1		

DRW.08B2/2-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

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DRW.09-200/300kVA TRANSFORMER PLATFORM-13M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERENCES	
01	1	OC13S-13 Meter Steel Pale, HDG, Single Circuit	2D-SDMS-D1	Page 34	
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	2D-SDMS-D1	Page 33	
03	4	Crassarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1	
04	1	Fuse Cut-Out Maunting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2	
05	2	Transfarmer Maunting Channel—C 150x75x75x6.5x2400mm L.G.	2D-SDMS-D2	Fig. 3	
06	1	Brace-L 50x50x4x828mm L.G.	2D-SDMS-D2	Fig. 4	
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	2D-SDMS-D2	Fig. 4	
08	7	Line Past Insulator	15-SDMS-D1	Clause 4.2.8	
09	3 Set	Preformed Armour Rods for 170.5mm2 ACSR/AW (Merlin)	2D-SDMS-02	Fig. 38	
10	2 Set	Prefarmed Armaur Rad far 67.44mm2 ACSR/AW (Quail)	2D-SDMS-D2	Fig. 38	
11	3 Set	Preformed Line Post Insulotor Side Tie for Merlin ACSR With Armour	2D-SDMS-D2	Fig. 35	
12	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	2D-SDMS-D2	Fig. 35	
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	2D-SDMS-D2	Fig. 3D	
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16	
15	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-02	Fig. 16	
16	1	Shaulder Eye Balt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16	
17	1	Shaulder Eye Balt, M16x285mm W/Nut, 1 Flat Washer, 1 Spring Washer	2D-SDMS-D2	Fig. 16	
18	2	Eye Nut, M16	2D-SDMS-D2	Fig. 18	
19	10	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 14	
20	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15	
21	2	Machine Balt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15	
22	1	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15	
23	2	Machine Balt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15	
24	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15	
25	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Washer	2D-SDMS-D2	Fig. 15	
26	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15	
27	3	Parallel Graave Campressian Cannectar far Merlin — Quail	2D-SDMS-D2	Fig. 39	
28	2	Earthwire Suppart Plate, L 110x110x10x150mm Lg.	20-SDMS-D2	Fig. 6	
29	1	Transfarmer, 200KVA.	51-SDMS-D1		
30	3	Fuse Cut—Out (Camplete Assembly)	34-SDMS-D1		
31	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	2D-SDMS-D2	Fig. 42	
32	9	Terminal Lug far 35mm2 Cu.	12-SDMS-D2		
33	3	Surge Arrester, 33kV	35-SDMS-D1		
34	15M	70mm2 Capper Bare Canductar			
35	18м	Quail Canductor, 67.44mm2 ACSR/AW	1D-SDMS-D1		
36	9м	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-SDMS-D1		
37	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02		

DRW.09A1/2-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
38	13	Terminol Lugs for 70mm2, Cu.	12-SDMS-01	
39	2	Crimpit Cu. Connector For 70mm2.	20-S0MS-02	Fig. 45
40	1	Graund Wire Guord	20-S0MS-02	Fig. 47
41	4	Suspension Insulotor	15-S0MS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-S0MS-02	Fig. 21
43	15M	Stoinless Steel Strop Bond	20-S0MS-02	Fig. 55
44	20	Buckle far Stainless Steel Strap Band	20-S0MS-02	Fig. 55
45	1	P.M.T. Cobinet 800A.	31-SDMS-03	
46	6М	Coble Aluminium— 4x300mm2 Moin Incoming	11-S0MS-01	
47	4	Coble Tie	20-S0MS-02	Fig. 63
48	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm2-120mm2	20-S0MS-02	Fig. 34
49	2 Set	Phosing Plotes (A,B,C).	20-S0MS-02	Fig. 53
50	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-S0MS-02	Fig. 55
51	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weother Heod, Al. for 70mm O.D. Polyethelene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Palyethelene Rigid Pipe for Outgaing Coble.	20-S0MS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D far 4x300mm2 Incaming Cable.	20-S0MS-02	
55	36M	Quodruplex Coble, Al. 120mm2	11-S0MS-02	
56	1	Bi-Metolic connector, 2Bolts type for 70mm2 Cu70mm2 Al.	20-S0MS-02	
57	4	Bi-Metolic cannector, 2Balts type far 70mm2 Cu120mm2 Al.	20-S0MS-02	
58	36M	Cu. Conductor, Insuloted stronded 70mm2 Soft Drown		
59	2 Set	Donger Sign Plote Complete With Its Accessories	20-S0MS-02	Fig. 49
60	28M	Anti-Climbing Divice, Borbed Wire	20-S0MS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Borbed Wire	20-S0MS-02	Fig. 13
62	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plotes	20-S0MS-02	Fig. 51
64	1	Equipment Numbering Bose Plote	20-S0MS-02	Fig. 52
65	1 Set	Equipment Numbering Plotes	20-S0MS-02	Fig. 52
66	1 Set	L.T One Stoy Assembly (Optionol)	S0CS-01	0rw. 310
67	1 Set	M.V-S.C One Stay Assembly	S0CS-01	Orw. 312
68	6	Phosing Plotes Mounting Brockets	20-S0MS-02	Fig. 54
69	2 Set	Donger Sign Maunting Brockets	20-S0MS-02	Fig. 50
70	16	Terminal Lugs far Cable 4X300mm2 Al.	12-S0MS-02	Fig. 4
71	12	Terminol Lugs for Quodruplex Coble 4X120mm2 Al.	12-SDMS-02	Fig. 4
72	26M	Stoy wire 7/3.25, 9.8mm Dio, HDG steel, UTS 65kN Min. (Optional)	S0CS-01	
73	1 Set	L.T One Stoy Assembly On PMT-Structure/200	S0CS-01	Orw. 321
74	16M	Stoy wire 7/4, 12mm Dio, HDG steel, UTS 101kN (Min.)	S0CS-01	

DRW.09A2/2-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC13S-13 Meter Steel Pale, HDG, Single Circuit	2D-SDMS-D1	Poge 34
02	1	OC10-10 Meter Steel Pale, HDG, LV Single Circuit	2D-SDMS-D1	Poge 33
03	4	Crassarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Maunting Channel-C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transfarmer Maunting Channel-C 150x75x75x6.5x2400mm L.G.	2D-SDMS-D2	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	2D-SDMS-D2	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	2D-SDMS-D2	Fig. 4
08	7	Line Past Insulatar	15-SDMS-D1	Clause 4.2.8
09	3 Set	Prefarmed Armaur Rads far 170.5mm2 ACSR/AW (Merlin)	2D-SDMS-02	Fig. 38
10	2 Set	Prefarmed Armaur Rad far 67.44mm2 ACSR/AW (Quail)	2D-SDMS-D2	Fig. 38
11	3 Set	Prefarmed Line Past Insulator Side Tie far Merlin ACSR With Armaur	2D-SDMS-D2	Fig. 35
12	4 Set	Prefarmed Line Past Insulator Tap Tie far Quail	2D-SDMS-D2	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	2D-SDMS-D2	Fig. 3D
14	1	Shaulder Eye Balt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
15	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-02	Fig. 16
16	1	Shaulder Eye Balt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
17	1	Shaulder Eye Balt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
18	2	Eye Nut, M16	2D-SDMS-D2	Fig. 16
19	10	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 14
20	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
21	2	Machine Balt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
22	1	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
23	2	Machine Balt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
24	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Balt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
26	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
27	3	Parallel Graave Campressian Cannectar far Merlin — Quail	2D-SDMS-D2	Fig. 39
28	2	Earthwire Suppart Plate, L 110x110x10x150mm Lg.	20-SDMS-D2	Fig. 6
29	1	Transfarmer, 300KVA.	51-SDMS-D1	
30	3	Fuse Cut-Out (Camplete Assembly)	34-SDMS-D1	
31	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	2D-SDMS-D2	Fig. 42
32	9	Terminal Lug far 35mm2 Cu.	12-SDMS-D2	
33	3	Surge Arrester, 33kV	35-SDMS-D1	
34	15M	70mm2 Capper Bare Canductar		
35	18M	Quail Canductor, 67.44mm2 ACSR/AW	1D-SDMS-D1	
36	9М	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-SDMS-D1	
37	3	35mm2 Cu. Flexible Cared Wire with Lugs	20-SDMS-02	

DRW.09B1/2-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL No.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
38	13	Terminal Lugs far 70mm2, Cu.	12-SDMS-01	
39	2	Crimpit Cu. Cannectar Far 70mm2.	20-S0MS-02	Fig. 45
40	1	Graund Wire Guard	20-S0MS-02	Fig. 47
41	4	Suspension Insulator	15-S0MS-01	Clause 4.2.5
42	4	Clevis Eye Extension	20-S0MS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-S0MS-02	Fig. 55
44	20	Buckle far Stainless Steel Strap Band	20-S0MS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6М	Cable Aluminium— 4x300mm2 Main Incaming	11-SOMS-01	
47	4	Cable Tie	20-S0MS-02	Fig. 63
48	12	Insulated Type Sleeve far Cannecting Quadruplex 120mm2—120mm2	20-S0MS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-S0MS-02	Fig. 53
50	6M	Rigid PVC Sleeve far Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Palyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. far 70mm O.D. Palyethelene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. Palyethelene Rigid Pipe far Outgaing Cable	20-S0MS-02	
54	2	Flexible Pipe, 2 Mtr. 75mm I.D far 4x300mm2 Incaming Cable	20-S0MS-02	
55	36M	Quadruplex Cable, Al. 120mm2	11-S0MS-02	
56	1	Bi-Metalic cannectar, 2Balts type far 70mm2 Cu70mm2 Al.	20-SDMS-02	
57	4	Bi-Metalic cannectar, 2Balts type far 70mm2 Cu120mm2 Al.	20-S0MS-02	
58	36M	Cu. Canductar, Insulated stranded 70mm2 Saft Drawn		
59	2 Set	Danger Sign Plate Camplete With Its Accessaries	11-S0MS-01	Fig. 49
60	28M	Anti-Climbing Divice, Barbed Wire	20-S0MS-02	Fig. 13
61	4	Buckle Type, Lacking Clip far Barbed Wire	20-S0MS-02	Fig. 13
62	1	Pale Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pale Numbering Plates	20-S0MS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-S0MS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-S0MS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	0rw. 310
67	1 Set	M.V-S.C One Stay Assembly	S0CS-01	0rw. 312
68	6	Phasing Plates Maunting Brackets	20-S0MS-02	Fig. 54
69	2 Set	Danger Sign Maunting Brackets	20-S0MS-02	Fig. 50
70	16	Terminal Lugs far Cable 4X300mm2 Al.	12-S0MS-02	Fig. 4
71	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
72	26M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optianal)	S0CS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200	S0CS-01	0rw. 321
74	16M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	S0CS-01	

DRW.09B2/2-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

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DRW.10-200/300kVA TRANSFORMER PLATFORM-13M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

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# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC13S-13 Meter Steel Pale, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	OC10-10 Meter Steel Pale, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crassarm—L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut—Out Maunting Channel—C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transfarmer Maunting Channel—C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Past Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Graave Campressian Cannecter far 170.5mm2 ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Graave Campressian Cannecter for 67.44mm2 ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Prefarmed Line Past Insulator Tap Tie far Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Prefarmed Line Post Insulator Tap Tie far Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 30
15	1	Shaulder Eye Balt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Balt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Balt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Balt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Balt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Balt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspensian Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transfarmer, 200KVA.	51-SDMS-01	
31	3	Fuse Cut-Out (Camplete Assembly)	34-SDMS-01	
32	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug far 35mm2 Cu.	12-SDMS-02	
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm2 Capper Bare Canductar		
36	18M	Quail Canductar, 67.44mm2 ACSR/AW	10-SDMS-01	
37	9М	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-SDMS-01	

DRW.10A1/3-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
38	3	35mm2 Cu. Flexible Cared Wire with Lugs	20-SDMS-02	
39	13	Terminal Lugs far 70mm2, Cu.	12-S0MS-01	
40	2	Crimpit Cu. Cannectar Far 70mm2.	20-S0MS-02	Fig. 45
41	1	Graund Wire Guard	20-S0MS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-S0MS-01	Page.23
43	10	Clevis Eye Extension	20-S0MS-02	Fig. 21
44	15M	Stoinless Steel Strop Bond	20-S0MS-02	Fig. 55
45	20	Buckle far Stainless Steel Strap Band	20-SDMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-S0MS-03	·
47	6М	Coble Aluminium— 4x300mm2 Main Incoming	11-S0MS-01	
48	4	Coble Tie	20-SDMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm2-120mm2	20-S0MS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Maunting Brackets	20-S0MS-02	Fig. 54
52	6M	Rigid PVC Sleeve for Stoinless Steel Strop	20-S0MS-02	Fig. 55
53	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. far 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Coble.	20-SDMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D far 4x300mm2 Incoming Cable.	20-SDMS-02	
57	36M	Quadruplex Coble, 120mm2	11-S0MS-02	
58	1	Bi-Metalic cannector, 2Balts type for 70mm2 Cu70mm2 Al.	20-S0MS-02	
59	4	Bi-Metalic connector, 2Bolts type for 70mm2 Cu120mm2 Al.	20-S0MS-02	
60	36M	Cu. Canductar, Insulated stranded 70mm2 Saft Drawn	11-S0MS-01	
61	6 Set	Suspension Insulator	15-S0MS-01	Page. 2
62	6	Anchor Shackle	20-S0MS-02	Fig. 20
63	3	Dauble Arming Plate, 100x12x700mm Lg.	20-S0MS-02	Fig. 07
64	6	Strain Clamp, 3U-Balts type far Merlin	20-S0MS-02	Fig. 29
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Orw. 31
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	S0CS-01	Orw. 31
67	1 Set	M.V-S.C Two Stoy Assembly	SDCS-01	Drw. 31
68	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	S0CS-01	
69	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	S0CS-01	
70	2 Set	Danger Sign Plate Camplete With Its Accessories	20-S0MS-02	Fig. 49
71	2 Set	Danger Sign Maunting Brackets	20-S0MS-02	Fig. 50
72	28M	Anti-Climbing Divice, Barbed Wire	20-S0MS-02	Fig. 13
73	4	Buckle Type, Locking Clip for Borbed Wire	20-S0MS-02	Fig. 13

DRW.10A2/3-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



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#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

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DATE: DECEMBER 2005G

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERE	ICES
74	16	Terminal Lugs far Cable 4X300mm2 Al.		12-SDMS-02	Fig. 4
75	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.		12-SDMS-02	Fig. 4
76	1	Pale Numbering Base Plate		20-SDMS-02	Fig. 51
77	1 Set	Pale Numbering Plates		20-SDMS-02	Fig. 51
78	1	Equipment Numbering Base Plate		20-SDMS-02	Fig. 52
79	1 Set	Equipment Numbering Plates		20-SDMS-02	Fig. 52
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DRW.10A3/3-200kVA TRANSFORMER PLATFORM, 13M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



### الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC13S-13 Meter Steel Pale, HDG, Single Circuit	20-SDMS-01	Poge 35
02	1	OC10-10 Meter Steel Pale, HDG, LV Single Circuit	20-SDMS-01	Poge 33
03	5	Crassarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut—Out Maunting Channel—C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transfarmer Maunting Channel—C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Graave Campressian Cannecter for 170.5mm2 ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Graave Campressian Cannecter for 67.44mm2 ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Prefarmed Line Post Insulator Top Tie far Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Prefarmed Line Past Insulator Tap Tie far Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type for Quail ACSR	20-SDMS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Balt, M16x255mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shoulder Eye Balt, M16x285mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Balt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Balt, M20x380mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Balt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transfarmer, 300KVA	51-SDMS-01	
31	3	Fuse Cut-Out (Camplete Assembly)	34-SDMS-01	
32	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug far 35mm2 Cu.	20-SDMS-02	Fig. 46
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm2 Capper Bare Canductar		
36	18м	Quail Canductar, 67.44mm2 ACSR/AW	10-SDMS-01	
37	9М	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-SDMS-01	

DRW.10B1/3-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
38	3	35mm2 Cu. Flexible Cared Wire with Lugs	20-SDMS-02	
39	13	Terminal Lugs for 70mm2, Cu.	12-S0MS-01	
40	2	Crimpit Cu. Cannectar Far 70mm2.	20-S0MS-02	Fig. 45
41	1	Graund Wire Guard	20-S0MS-02	Fig. 47
42	4	Suspension Insulator (Single)	15-S0MS-01	Page.23
43	10	Clevis Eye Extension	20-S0MS-02	Fig. 21
44	15M	Stainless Steel Strap Band	20-S0MS-02	Fig. 55
45	20	Buckle far Stainless Steel Strap Band	20-SDMS-02	Fig. 55
46	1	P.M.T. Cabinet 800A.	31-S0MS-03	·
47	6М	Cable Aluminium— 4x300mm2 Main Incoming	11-S0MS-01	
48	4	Cable Tie	20-SDMS-02	Fig. 63
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm2-120mm2	20-S0MS-02	Fig. 34
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Maunting Brackets	20-S0MS-02	Fig. 54
52	6М	Rigid PVC Sleeve for Stainless Steel Strap	20-S0MS-02	Fig. 55
53	4	Palyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
54	4	Weather Head, Al. far 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm2 Incoming Cable.	20-SDMS-02	
57	36M	Quadruplex Cable, 120mm2	11-S0MS-02	
58	1	Bi-Metalic cannector, 2Balts type for 70mm2 Cu70mm2 Al.	20-S0MS-02	
59	4	Bi-Metalic cannector, 2Balts type for 70mm2 Cu120mm2 Al.	20-S0MS-02	
60	36M	Cu. Canductar, Insulated stranded 70mm2 Saft Drawn	11-S0MS-01	
61	6 Set	Suspension Insulator	15-S0MS-01	Page. 2
62	6	Anchar Shackle	20-S0MS-02	Fig. 20
63	3	Dauble Arming Plate, 100x12x700mm Lg.	20-S0MS-02	Fig. 07
64	6	Strain Clamp, 3U-Balts type far Merlin	20-S0MS-02	Fig. 29
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	0rw. 31
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	S0CS-01	Orw. 31
67	1 Set	M.V-S.C Twa Stay Assembly	S0CS-01	Orw. 31
68	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
69	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	S0CS-01	
70	2 Set	Danger Sign Plate Camplete With Its Accessories	20-S0MS-02	Fig. 49
71	2 Set	Danger Sign Maunting Brackets	20-S0MS-02	Fig. 50
72	28м	Anti-Climbing Divice, Barbed Wire	20-S0MS-02	Fig. 13
73	4	Buckle Type, Lacking Clip far Barbed Wire	20-S0MS-02	Fig. 13

DRW.10B2/3-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



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### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

DATE: DECEMBER 2003G						
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERE	ICES	
74	16	Terminal Lugs far Cable 4X300mm2 Al.		12-SDMS-02	Fig. 4	
75	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.		12-SDMS-02	Fig. 4	-
76	1	Pale Numbering Base Plate		20-SDMS-02	Fig. 5	, 1
77	1 Set	Pale Numbering Plates		20-SDMS-02	Fig. 5	1
78	1	Equipment Numbering Base Plate		20-SDMS-02	Fig. 5	2
79	1 Set	Equipment Numbering Plates		20-SDMS-02	Fig. 5	2
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DRW.10B3/3-300kVA TRANSFORMER PLATFORM, 13M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

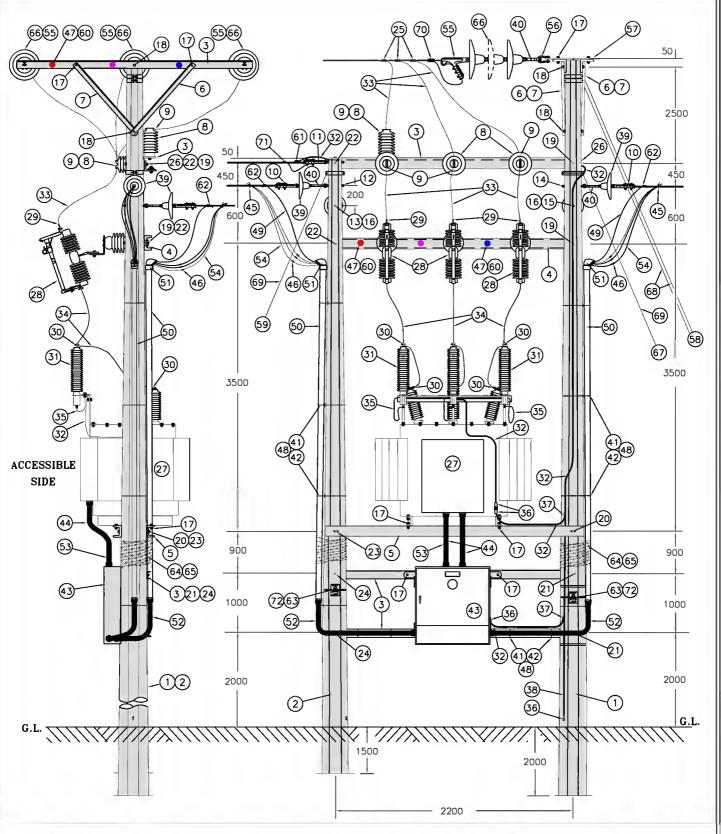


### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.11-200/300kVA TRANSFORMER PLATFORM-13M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-S0MS-01	Poge 35
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crossorm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Chonnel-C 125x65x65x6x2400mm L.G.	20-S0MS-02	Fig. 2
05	2	Tronsformer Mounting Chonnel-C 150x75x75x6.5x2400mm L.G.	20-S0MS-02	Fig. 3
06	2	Broce-L 50x50x4x828mm L.G.	20-S0MS-02	Fig. 4
07	2	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-S0MS-02	Fig. 4
08	4	Line Post Insulotor	15-S0MS-01	Clause 4.2.8
09	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	20-S0MS-02	Fig. 35
10	4	Stroin Clamp, Stroight Line Deodend Type for Quadruplex	20-S0MS-02	Fig. 30
11	1	Stroin Clomp, Stroight Line Deadend Type for Quoil ACSR	20-S0MS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-S0MS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-S0MS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-S0MS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-S0MS-02	Fig. 18
17	18	Mochine Bolt, M20x60mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 14
18	2	Mochine Bolt, M20x225mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
19	2	Mochine Bolt, M20x265mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
20	1	Mochine Bolt, M20x365mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-SDMS-02	Fig. 15
21	2	Mochine Bolt, M20x380mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
22	2	Mochine Bolt, M16x165mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
23	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
24	2	Mochine Bolt, M16x300mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
25	3	Porollel Groove Compression Connector for Merlin - Quoil	20-S0MS-02	Fig. 39
26	2	Eorthwire Suspension Support, L 110x110x10x150mm Lg.	20-S0MS-02	Fig. 5
27	1	Tronsformer, 200KVA.	51-S0MS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-S0MS-01	
29	3	Terminol Plug For 67.44mm2 ACSR/AW (Quoil)	20-S0MS-02	Fig. 42
30	9	Terminol Lug for 35mm2 Cu.	20-S0MS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-S0MS-01	
32	17M	70mm2 Copper Bore Conductor		
33	18M	Quoil Conductor, 67.44mm2 ACSR/AW	10-S0MS-01	
34	9м	Cu. Conductor, Insuloted Stronded 35mm2 Soft Drown	11-S0MS-01	
35	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-S0MS-02	
36	13	Terminol Lug for 70mm2 Cu.	12-S0MS-01	
37	2	Crimpit Cu. Connector for 70mm2	20-S0MS-02	Fig. 45

DRW.11A1/3-200kVA TRANSFORMER PLATFORM-13M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
38	1	Graund Wire Guard	20-SDMS-02	Fig. 47
39	4	Suspension Insulator (Single)	15-SOMS-01	
40	7	Clevis Eye Extensian	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
43	1	P.M.T. Cabinet 800A	31-SDMS-03	
44	6М	Cable - 4x300mm2 Al. Main Incaming	11-SDMS-01	
45	4	Cable Tie	20-SDMS-02	Fig. 63
46	12	Insulated Type Sleeve for Connecting Quadruplex 120mm2-120mm2	20-SDMS-02	Fig. 34
47	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
48	6М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
49	36M	Cu. Canductar Insulated, stranded 70mm2 Saft Drawn	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Head, Al. far 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe far Outgoing Cable.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D far 4X300mm2 Incaming Cable	20-S0MS-02	
54	36M	Quadruplex Cable, 120mm2	11-SDMS-02	
55	3	Strain Clamp, 3 U-Balts far Merlin	20-SDMS-02	Fig. 29
56	3	Anchar Shackle	20-SDMS-02	Fig. 20
57	3	Dauble Arming Plate	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stoy Assembly	S0CS-01	Drw. 313
59	1 Set	L.T One stay Assembly (Optional)	SDCS-01	Drw. 310
60	6	Phasing Plates Maunting Brackets	20-SDMS-02	Fig. 54
61	1	Bi-Mettalic Cannectar, 2 Balt Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
62	4	Bi-Mettalic Cannectar, 2 Balt Type far 70mm2 Cu120mm2 Al.	20-SDMS-02	
63	2 Set	Danger Sign Plate Camplete With Its Accessories	20-SDMS-02	Fig. 49
64	28M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Lacking Clip for Barbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulator	15-SDMS-01	
67	1 Set	L.T One stoy Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
69	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
70	3	Parallel Graave Clamp far 3 U-Balts type far Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Parallel Graave Clamp far twa Balts type far Quail ACSR	20-SDMS-02	Fig. 39
72	2 Set	Danger Sign Maunting Brackets	20-SOMS-02	Fig. 50

DRW.11A2/3-200kVA TRANSFORMER PLATFORM-13M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE	DECEMBER	2005G

DATE: DECEMBER 2003G				
QTY	BILL OF MATERIALS DESCRIPTION		REFEREN	ICES
1	Pale Numbering Base Plate		20-SDMS-02	Fig. 51
1 Set	Pale Numbering Plates		20-SDMS-02	Fig. 51
1	Equipment Numbering Base Plate		20-SDMS-02	Fig. 52
1 Set	Equipment Numbering Plates		20-SDMS-02	Fig. 52
16	Terminal Lugs far Cable 4X300mm2 Al.		12-SDMS-02	Fig. 4
12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.		12-SDMS-02	Fig. 4
			-	
	1 1 Set 1 1 Set 16	1 Pale Numbering Base Plate 1 Set Pale Numbering Plates 1 Equipment Numbering Base Plate 1 Set Equipment Numbering Plates 16 Terminal Lugs far Cable 4X300mm2 Al.	Pale Numbering Base Plate  1 Set Pale Numbering Plates  1 Equipment Numbering Base Plate  1 Set Equipment Numbering Plates  1 Terminal Lugs far Cable 4X300mm2 Al.	QTYBILL OF MATERIALS DESCRIPTIONREFERENT1Pale Numbering Base Plate20-SDMS-021Set Pale Numbering Plates20-SDMS-021Equipment Numbering Base Plate20-SDMS-021Set Equipment Numbering Plates20-SDMS-0216Terminal Lugs for Cable 4X300mm2 Al.12-SDMS-02

DRW.11A3/3-200kVA TRANSFORMER PLATFORM-13M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-S0MS-01	Page 35
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-S0MS-01	Page 33
03	5	Crossorm-L 100x100x12x2400mm L.G.	20-S0MS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Chonnel-C 125x65x65x6x2400mm L.G.	20-S0MS-02	Fig. 2
05	2	Tronsformer Mounting Chonnel-C 150x75x75x6.5x2400mm L.G.	20-S0MS-02	Fig. 3
06	2	Broce-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	4	Line Post Insulotor	15-SDMS-01	Clause 4.2.8
09	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	20-S0MS-02	Fig. 35
10	4	Stroin Clomp, Stroight Line Deodend Type for Quodruplex	20-S0MS-02	Fig. 30
11	1	Stroin Clomp, Stroight Line Deodend Type for Quoil ACSR	20-S0MS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-S0MS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-S0MS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x255mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-S0MS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x285mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-S0MS-02	Fig. 18
17	18	Mochine Bolt, M20x60mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 14
18	2	Mochine Bolt, M20x225mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
19	2	Mochine Bolt, M20x265mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
20	1	Mochine Bolt, M20x365mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-SDMS-02	Fig. 15
21	2	Mochine Bolt, M20x380mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
22	2	Mochine Bolt, M16x165mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
23	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
24	2	Mochine Bolt, M16x300mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
25	3	Porollel Groove Compression Connector for Merlin - Quoil	20-S0MS-02	Fig. 39
26	2	Eorthwire Suspension Support, L 110x110x10x150mm Lg.	20-S0MS-02	Fig. 5
27	1	Tronsformer, 300KVA.	51-S0MS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-S0MS-01	
29	3	Terminol Plug For 67.44mm2 ACSR/AW (Quoil)	20-S0MS-02	Fig. 42
30	9	Terminol Lug for 35mm2 Cu.	20-S0MS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-S0MS-01	
32	17M	70mm2 Copper Bore Conductor		
33	18M	Quoil Conductor, 67.44mm2 ACSR/AW	10-S0MS-01	
34	9м	Cu. Conductor, Insuloted Stronded 35mm2 Soft Drown	11-S0MS-01	
35	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-S0MS-02	
36	13	Terminol Lug for 70mm2 Cu.	12-S0MS-01	
37	2	Crimpit Cu. Connector for 70mm2	20-S0MS-02	Fig. 45

DRW.11B1/3-300kVA TRANSFORMER PLATFORM-13M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: SEPTEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
38	1	Graund Wire Guard	20-SDMS-02	Fig. 47
39	4	Suspension Insulator (Single)	15-SOMS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
42	20	Buckle for Stoinless Steel Strop Bond	20-SDMS-02	Fig. 55
43	1	P.M.T. Cabinet 800A	31-SDMS-03	
44	6М	Cable - 4x300mm2 Al. Main Incaming	11-SDMS-01	
45	4	Cable Tie	20-SDMS-02	Fig. 63
46	12	Insulated Type Sleeve far Cannecting Quadruplex 120mm2—120mm2	20-SDMS-02	Fig. 34
47	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
48	6M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
49	36M	Cu. Canductar Insulated, stranded 70mm2 Saft Drawn	11-SDMS-01	
50	4	Palyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Head, Al. far 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe far Outgaing Cable.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D far 4X300mm2 Incoming Cable	20-S0MS-02	
54	36M	Quadruplex Cable, 120mm2	11-SDMS-02	
55	3	Strain Clamp, 3 U-Balts far Merlin	20-SDMS-02	Fig. 29
56	3	Anchar Shackle	20-SDMS-02	Fig. 20
57	3	Dauble Arming Plate	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Twa stay Assembly	S0CS-01	Drw. 313
59	1 Set	L.T One stay Assembly (Optional)	SDCS-01	Drw. 310
60	6	Phasing Plates Maunting Brackets	20-SDMS-02	Fig. 54
61	1	Bi-Mettalic Cannectar, 2 Balt Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
62	4	Bi-Mettalic Cannectar, 2 Balt Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
63	2 Set	Danger Sign Plate Camplete With Its Accessaries	20-SDMS-02	Fig. 49
64	28M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Lacking Clip for Barbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulator	15-SDMS-01	
67	1 Set	L.T One stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
69	26M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optianal)	SDCS-01	
70	3	Parallel Graave Clamp far 3 U-Balts type far Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Parallel Graave Clamp for two Balts type for Quail ACSR	20-SDMS-02	Fig. 39
72	2 Set	Danger Sign Maunting Brackets	20-S0MS-02	Fig. 50

DRW.11B2/3-300kVA TRANSFORMER PLATFORM-13M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE:	DECEMBER	2005G
DAIL.	DECEMBER	~0000

	DATE: DECEMBER 2003G					
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFEREN	ICES	
73	1	Pale Numbering Base Plate		20-SDMS-02	Fig. 51	
74	1 Set	Pale Numbering Plates		20-SDMS-02	Fig. 51	
75	1	Equipment Numbering Base Plate		20-SDMS-02	Fig. 52	
76	1 Set	Equipment Numbering Plates		20-SDMS-02	Fig. 52	
77	16	Terminal Lugs far Cable 4X300mm2 Al.		12-SDMS-02	Fig. 4	
78	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.		12-SDMS-02	Fig. 4	
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DRW.11B3/3-300kVA TRANSFORMER PLATFORM-13M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

### 200/300kVA PMT ON 14M POLE H-FRAME TRANSFORMER STRUCTURE

# الشركة السعودية للكهرباء Saudi Electricity Company SDCS-01 SEC DISTRIBUTION CONSTRUCTION STANDARDS DATE: DECEMBER 2005G 8 911 911 911 501 4967 3500 20) (8) 72 (51) 3500 3500 ACCESSIBLE SIDE 38) (60(61) 900 (68)(59) 5968 1000 2000 2000 (2) 2000

DRW.12-200/300kVA TRANSFORMER PLATFORM-14M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



### الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	1CES
01	1	OC14S-14 Meter Steel Pale, HDG, Single Circuit	2D-SDMS-D1	Page 36
02	1	OC10-10 Meter Steel Pale, HDG, LV Single Circuit	2D-SDMS-D1	Page 33
03	4	Crassarm—L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut—Out Maunting Channel—C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transfarmer Maunting Channel—C 150x75x75x6.5x2400mm L.G.	2D-SDMS-D2	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	2D-SDMS-D2	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	2D-SDMS-D2	Fig. 4
08	7	Line Post Insulator	15-SDMS-D1	Clause 4.2.8
09	3 Set	Prefarmed Armaur Rads far 170.5mm2 ACSR/AW (Merlin)	2D-SDMS-02	Fig. 38
10	2 Set	Prefarmed Armaur Rad far 67.44mm2 ACSR/AW (Quail)	2D-SDMS-D2	Fig. 38
11	3 Set	Prefarmed Line Past Insulator Tap Tie far Merlin ACSR With Armaur	2D-SDMS-D2	Fig. 35
12	4 Set	Prefarmed Line Past Insulator Tap Tie far Quail	2D-SDMS-D2	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	2D-SDMS-D2	Fig. 3D
14	1	Shaulder Eye Balt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
15	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-02	Fig. 16
16	1	Shoulder Eye Balt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
17	1	Shaulder Eye Balt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
18	2	Eye Nut, M16	2D-SDMS-D2	Fig. 18
19	10	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 14
20	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
21	2	Machine Balt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
22	1	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
23	2	Machine Balt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
24	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Machine Balt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
26	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
27	3	Parallel Graave Campressian Cannectar far Merlin — Quail	2D-SDMS-D2	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-SDMS-D2	Fig. 6
29	1	Transfarmer, 200KVA.	51-SDMS-D1	
30	3	Fuse Cut-Out (Camplete Assembly)	34-SDMS-D1	
31	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	2D-SDMS-D2	Fig. 42
32	9	Terminal Lug far 35mm2 Cu.	12-SDMS-D2	
33	3	Surge Arrester, 33kV	35-SDMS-D1	
34	15M	70mm2 Capper Bare Canductar		
35	21M	Quail Canductar, 67.44mm2 ACSR/AW	1D-SDMS-D1	
36	9М	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-SDMS-D1	
37	3	35mm2 Cu. Flexible Cared Wire with Lugs	20-SDMS-02	

DRW.12A1/2-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

# Saudi Electricity Company ( ) الشركة السعودية للكهرباء



#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	
38	13	Terminal Lugs far 70mm2, Cu.	12-SDMS-01	
39	2	Crimpit Cu. Cannectar Far 70mm2.	20-S0MS-02	Fig. 45
40	1	Graund Wire Guard	20-SDMS-02	Fig. 47
41	4	Suspension Insulator	15-S0MS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-S0MS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
44	20	Buckle far Stainless Steel Strap Band	20-S0MS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6М	Cable Aluminium— 4x300mm2 Main Incaming	11-S0MS-01	
47	4	Cable Tie	20-S0MS-02	Fig. 63
48	12	Insulated Type Sleeve for Connecting Quadruplex 120mm2—120mm2	20-S0MS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-S0MS-02	Fig. 53
50	6М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Palyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. far 70mm O.D. Palyethelene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Palyethelene Rigid Pipe for Outgoing Cable.	20-S0MS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D far 4x300mm2 Incaming Cable.	20-S0MS-02	
55	36M	Quadruplex Cable, Al. 120mm2	11-SDMS-02	
56	1	Bi-Metalic cannectar, 2Balts type far 70mm2 Cu70mm2 Al.	20-SDMS-02	
57	4	Bi-Metalic cannector, 2Balts type for 70mm2 Cu120mm2 Al.	20-S0MS-02	
58	36M	Cu. Canductar, Insulated stranded 70mm2 Saft Drawn		
59	2 Set	Danger Sign Plate Camplete With Its Accessories	20-S0MS-02	Fig. 49
60	29М	Anti-Climbing Divice, Barbed Wire	20-S0MS-02	Fig. 13
61	4	Buckle Type, Lacking Clip far Barbed Wire	20-S0MS-02	Fig. 13
62	1	Pale Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pale Numbering Plates	20-S0MS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-S0MS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	S0CS-01	Drw. 31
67	6	Phasing Plates Maunting Brackets	20-SOMS-02	Fig. 54
68	2 Set	Danger Sign Maunting Brackets	20-S0MS-02	Fig. 50
69	16	Terminal Lugs far Cable 4X300mm2 Al.	12-SOMS-02	Fig. 4
70	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
71	1 Set	L.T One Stay Assembly On PMT- Structure/200	S0CS-01	Drw. 32
72	28M	Stay wire 7/3.25, 9.8mm Dia., HDG steel. UTS 65kN Min. (Optional)	S0CS-01	

DRW.12A2/2-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S-14 Meter Steel Pale, HDG, Single Circuit	2D-SDMS-D1	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	2D-SDMS-D1	Page 33
03	4	Crassarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut—Out Maunting Channel—C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transfarmer Maunting Channel—C 150x75x75x6.5x2400mm L.G.	2D-SDMS-D2	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	2D-SDMS-D2	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	2D-SDMS-D2	Fig. 4
08	7	Line Past Insulator	15-SDMS-D1	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm2 ACSR/AW (Merlin)	2D-SDMS-02	Fig. 38
10	2 Set	Prefarmed Armaur Rad far 67.44mm2 ACSR/AW (Quail)	2D-SDMS-D2	Fig. 38
11	3 Set	Preformed Line Post Insulotor Top Tie for Merlin ACSR With Armour	2D-SDMS-D2	Fig. 35
12	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	2D-SDMS-D2	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	2D-SDMS-D2	Fig. 3D
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
15	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-02	Fig. 16
16	1	Shaulder Eye Balt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
17	1	Shaulder Eye Balt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	2D-SDMS-D2	Fig. 16
18	2	Eye Nut, M16	2D-SDMS-D2	Fig. 18
19	10	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 14
20	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
21	2	Machine Balt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
22	1	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
23	2	Machine Balt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
24	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
26	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	2D-SDMS-D2	Fig. 15
27	3	Parallel Graave Campressian Cannectar far Merlin — Quail	2D-SDMS-D2	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm L.G.	20-SDMS-D2	Fig. 6
29	1	Transfarmer, 300KVA.	51-SDMS-D1	
30	3	Fuse Cut—Out (Camplete Assembly)	34-SDMS-D1	
31	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	2D-SDMS-D2	Fig. 42
32	9	Terminal Lug far 35mm2 Cu.	12-SDMS-D2	
33	3	Surge Arrester, 33kV	35-SDMS-D1	
34	15M	70mm2 Capper Bare Canductar		
35	21M	Quail Canductor, 67.44mm2 ACSR/AW	1D-SDMS-D1	
36	9м	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-SDMS-D1	
37	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	7

DRW.12B1/2-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

# Saudi Electricity Company ( ) الشركة السعودية للكهرباء



#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
38	13	Terminol Lugs for 70mm2, Cu.	12-SDMS-01	
39	2	Crimpit Cu. Connector For 70mm2.	20-S0MS-02	Fig. 45
40	1	Ground Wire Guord	20-SDMS-02	Fig. 47
41	4	Suspension Insulotor	15-S0MS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-S0MS-02	Fig. 21
43	15M	Stoinless Steel Strop Bond	20-SDMS-02	Fig. 55
44	20	Buckle for Stoinless Steel Strop Bond	20-S0MS-02	Fig. 55
45	1	P.M.T. Cobinet 800A.	31-SDMS-03	
46	6М	Coble Aluminium- 4x300mm2 Moin Incoming	11-SOMS-01	
47	4	Coble Tie	20-S0MS-02	Fig. 63
48	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm2-120mm2	20-S0MS-02	Fig. 34
49	2 Set	Phosing Plotes (A,B,C).	20-S0MS-02	Fig. 53
50	6М	Rigid PVC Sleeve for Stoinless Steel Strop	20-SDMS-02	Fig. 55
51	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weother Heod, Al. for 70mm O.D. Polyethelene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethelene Rigid Pipe for Outgoing Coble.	20-S0MS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm2 Incoming Coble.	20-S0MS-02	
55	36м	Quodruplex Coble, Al., 120mm2	11-SDMS-02	
56	1	Bi-Metolic connector, 2Bolts type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
57	4	Bi-Metolic connector, 2Bolts type for 70mm2 Cu120mm2 Al.	20-S0MS-02	
58	36M	Cu. Conductor, Insuloted stronded 70mm2 Soft Drown		
59	2 Set	Donger Sign Plote Complete With Its Accessories	20-S0MS-02	Fig. 49
60	29М	Anti-Climbing Divice, Borbed Wire	20-S0MS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Borbed Wire	20-S0MS-02	Fig. 13
62	1	Pole Numbering Bose Plote	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plotes	20-S0MS-02	Fig. 51
64	1	Equipment Numbering Bose Plote	20-SDMS-02	Fig. 52
65	1 Set	Equipment Numbering Plotes	20-S0MS-02	Fig. 52
66	1 Set	L.T One Stoy Assembly (Optionol)	S0CS-01	Drw. 31
67	6	Phosing Plotes Mounting Brockets	20-S0MS-02	Fig. 54
68	2 Set	Donger Sign Mounting Brockets	20-S0MS-02	Fig. 50
69	16	Terminol Lugs for Coble 4X300mm2 Al.	12-SOMS-02	Fig. 4
70	12	Terminol Lugs for Quodruplex Coble 4X120mm2 Al.	12-SDMS-02	Fig. 4
71	1 Set	L.T One Stoy Assembly On PMT-Structure/200	S0CS-01	Drw. 32
72	28M	Stoy wire 7/3.25, 9.8mm Dio, HDG steel, UTS 65kN Min. (Optional)	S0CS-01	

DRW.12B2/2-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

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DRW.13-200/300kVA TRANSFORMER PLATFORM-14M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

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# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S-14 Meter Steel Pale, HDG, Single Circuit	20-S0MS-01	Poge 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Poge 33
03	4	Crassarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Maunting Channel-C 125x65x65x6x2400mm L.G.	20-S0MS-02	Fig. 2
05	2	Transformer Maunting Channel—C 150x75x75x6.5x2400mm L.G.	20-S0MS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-S0MS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-S0MS-02	Fig. 4
08	7	Line Past Insulatar	15-S0MS-01	Clause 4.2.8
09	3 Set	Preformed Armour Rods for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Prefarmed Armaur Rad far 67.44mm2 ACSR/AW (Quail)	20-S0MS-02	Fig. 38
11	3 Set	Preformed Line Post Insulotor Side Tie for Merlin ACSR With Armour	20-S0MS-02	Fig. 35
12	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	20-S0MS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-S0MS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
15	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
16	1	Shaulder Eye Balt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
17	1	Shaulder Eye Balt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
18	2	Eye Nut, M16	20-S0MS-02	Fig. 18
19	10	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 14
20	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
21	2	Machine Balt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
22	1	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
23	2	Machine Balt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
24	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Washer	20-S0MS-02	Fig. 15
26	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
27	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-S0MS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-S0MS-02	Fig. 6
29	1	Transfarmer, 200KVA.	51-S0MS-01	
30	3	Fuse Cut-Out (Camplete Assembly)	34-S0MS-01	
31	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-S0MS-02	Fig. 42
32	9	Terminal Lug far 35mm2 Cu.	12-S0MS-02	
33	3	Surge Arrester, 33kV	35-S0MS-01	
34	15M	70mm2 Capper Bare Canductar		
35	21M	Quail Canductor, 67.44mm2 ACSR/AW	10-S0MS-01	
36	9М	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-S0MS-01	
37	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-S0MS-02	

DRW.13A1/2-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
38	13	Terminol Lugs for 70mm2, Cu.	12-SDMS-01	
39	2	Crimpit Cu. Connector For 70mm2.	20-S0MS-02	Fig. 45
40	1	Ground Wire Guord	20-S0MS-02	Fig. 47
41	4	Suspension Insulotor	15-S0MS-01	Clouse 4.2.5
42	4	Clevis Eye Extension	20-S0MS-02	Fig. 21
43	15M	Stoinless Steel Strop Bond	20-S0MS-02	Fig. 55
44	20	Buckle for Stoinless Steel Strop Bond	20-S0MS-02	Fig. 55
45	1	P.M.T. Cobinet 800A.	31-SDMS-03	
46	6М	Coble Aluminium— 4x300mm2 Moin Incoming	11-S0MS-01	
47	4	Coble Tie	20-S0MS-02	Fig. 63
48	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm2-120mm2	20-S0MS-02	Fig. 34
49	2 Set	Phosing Plotes (A,B,C).	20-S0MS-02	Fig. 53
50	6М	Rigid PVC Sleeve for Stoinless Steel Strop	20-SDMS-02	Fig. 55
51	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weother Heod, Al. for 70mm O.D. Polyethelene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. Polyethelene Rigid Pipe for Outgoing Coble.	20-S0MS-02	
54	2	Flexible Pipe, 2 Mtrs., 75mm I.D for 4x300mm2 Incoming Coble.	20-S0MS-02	
55	36M	Quodruplex Coble, Al. 120mm2	11-S0MS-02	
56	1	Bi-Metolic connector, 2Bolts type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
57	4	Bi-Metolic connector, 2Bolts type for 70mm2 Cu120mm2 Al.	20-S0MS-02	
58	36M	Cu. Conductor, Insuloted stronded 70mm2 Soft Drown		
59	2 Set	Donger Sign Plote Complete With Its Accessories	20-SDMS-02	Fig. 49
60	29М	Anti-Climbing Divice, Borbed Wire	20-S0MS-02	Fig. 13
61	4	Buckle Type, Locking Clip for Borbed Wire	20-S0MS-02	Fig. 13
62	1	Pole Numbering Bose Plote	20-SDMS-02	Fig. 51
63	1 Set	Pole Numbering Plotes	20-S0MS-02	Fig. 51
64	1	Equipment Numbering Bose Plote	20-S0MS-02	Fig. 52
65	1 Set	Equipment Numbering Plotes	20-S0MS-02	Fig. 52
66	1 Set	L.T One Stoy Assembly (Optionol)	SDCS-01	0rw. 310
67	1 Set	M.V-S.C One Stoy Assembly	S0CS-01	Orw. 312
68	6	Phosing Plotes Mounting Brockets	20-S0MS-02	Fig. 54
69	2 Set	Donger Sign Mounting Brockets	20-S0MS-02	Fig. 50
70	16	Terminol Lugs for Coble 4X300mm2 Al.	12-S0MS-02	Fig. 4
71	12	Terminol Lugs for Quodruplex Coble 4X120mm2 Al.	12-SDMS-02	Fig. 4
72	28M	Stoy wire 7/3.25, 9.8mm Dio, HDG steel, UTS 65kN Min. (Optional)	S0CS-01	
73	1 Set	L.T One Stoy Assembly On PMT-Structure/200	S0CS-01	Orw. 321
74	17M	Stoy wire 7/4, 12mm Dio, HDG steel, UTS 101kN (Min.)	S0CS-01	

DRW.13A2/2-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S-14 Meter Steel Pale, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	4	Crassarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut—Out Maunting Channel—C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Tronsformer Mounting Chonnel-C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	7	Line Post Insulator	15-SDMS-01	Clause 4.2.8
09	3 Set	Prefarmed Armaur Rads far 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
10	2 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quoil)	20-SDMS-02	Fig. 38
11	3 Set	Prefarmed Line Past Insulator Side Tie for Merlin ACSR With Armour	20-SDMS-02	Fig. 35
12	4 Set	Prefarmed Line Past Insulator Tap Tie far Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
14	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flat Wosher & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shoulder Eye Balt, M16x275mm W/Nut, 1 Flot Washer & 1 Spring Wosher	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Balt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	2	Eye Nut, M16	20-SDMS-02	Fig. 16
19	10	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
20	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Balt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	1	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	2	Machine Balt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-SDMS-02	Fig. 15
26	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-SDMS-02	Fig. 39
28	2	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
29	1	Transfarmer, 300KVA.	51-SDMS-01	
30	3	Fuse Cut-Out (Camplete Assembly)	34-SDMS-01	
31	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
32	9	Terminal Lug far 35mm2 Cu.	12-SDMS-02	
33	3	Surge Arrester, 33kV	35-SDMS-01	
34	15M	70mm2 Capper Bare Canductar		
35	21M	Quail Canductor, 67.44mm2 ACSR/AW	10-SDMS-01	
36	9м	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-SDMS-01	
37	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	

DRW.13B1/2-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
38	13	Terminal Lugs far 70mm2, Cu.	12-SDMS-01	
39	2	Crimpit Cu. Cannectar Far 70mm2.	20-S0MS-02	Fig. 45
40	1	Graund Wire Guard	20-S0MS-02	Fig. 47
41	4	Suspension Insulator	15-S0MS-01	Clause 4.2.5
42	4	Clevis Eye Extensian	20-S0MS-02	Fig. 21
43	15M	Stainless Steel Strap Band	20-S0MS-02	Fig. 55
44	20	Buckle for Stainless Steel Strap Band	20-S0MS-02	Fig. 55
45	1	P.M.T. Cabinet 800A.	31-SDMS-03	
46	6М	Cable Aluminium— 4x300mm2 Main Incaming	11-SOMS-01	
47	4	Cable Tie	20-S0MS-02	Fig. 63
48	12	Insulated Type Sleeve far Cannecting Quadruplex 120mm2—120mm2	20-S0MS-02	Fig. 34
49	2 Set	Phasing Plates (A,B,C).	20-S0MS-02	Fig. 53
50	6М	Rigid PVC Sleeve far Stainless Steel Strap	20-SDMS-02	Fig. 55
51	4	Palyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
52	4	Weather Head, Al. far 70mm O.D. Palyethelene Rigid Pipe	20-SDMS-02	
53	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. Palyethelene Rigid Pipe far Outgaing Cable	20-S0MS-02	
54	2	Flexible Pipe, 2 Mtr. 75mm I.D far 4x300mm2 Incaming Cable	20-S0MS-02	
55	36M	Quadruplex Cable, Al. 120mm2	11-S0MS-02	
56	1	Bi-Metalic cannector, 2Balts type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
57	4	Bi-Metalic cannector, 2Balts type for 70mm2 Cu120mm2 Al.	20-S0MS-02	
58	36M	Cu. Canductar, Insulated stranded 70mm2 Saft Drawn		
59	2 Set	Danger Sign Plate Camplete With Its Accessaries	11-S0MS-01	Fig. 49
60	29M	Anti-Climbing Divice, Barbed Wire	20-S0MS-02	Fig. 13
61	4	Buckle Type, Lacking Clip far Barbed Wire	20-S0MS-02	Fig. 13
62	1	Pale Numbering Base Plate	20-SDMS-02	Fig. 51
63	1 Set	Pale Numbering Plates	20-S0MS-02	Fig. 51
64	1	Equipment Numbering Base Plate	20-S0MS-02	Fig. 52
65	1 Set	Equipment Numbering Plates	20-S0MS-02	Fig. 52
66	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Orw. 310
67	1 Set	M.V-S.C One Stay Assembly	S0CS-01	0rw. 312
68	6	Phasing Plates Maunting Brackets	20-S0MS-02	Fig. 54
69	2 Set	Danger Sign Maunting Brackets	20-S0MS-02	Fig. 50
70	16	Terminal Lugs far Cable 4X300mm2 Al.	12-S0MS-02	Fig. 4
71	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
72	28M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optianal)	S0CS-01	
73	1 Set	L.T One Stay Assembly On PMT-Structure/200	S0CS-01	0rw. 321
74	17M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN (Min.)	S0CS-01	

DRW.13B2/2-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

### الشركة السعودية للكهرباء Saudi Electricity Company SDCS-01 SEC DISTRIBUTION CONSTRUCTION STANDARDS DATE: DECEMBER 2005G 8(1) 118 9 (8) 3500 . | 48 65) 3500 3500 (30) **ACCESSIBLE** (30) SIDE 47(56) 7273 900 900 46 7779 (70(71) 1000 (55) 27 2000 .02 2000 (2) 2000

DRW.14-200/300kVA TRANSFORMER PLATFORM-14M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



### الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pale, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	OC10-10 Meter Steel Pale, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crassarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut—Out Maunting Channel—C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transfarmer Maunting Channel—C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	6	Line Past Insulator	15-SDMS-01	Clause 4.2.8
09	3	Parallel Graave Campressian Cannecter for 170.5mm2 ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Parallel Graave Campressian Cannecter for 67.44mm2 ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 39
11	2 Set	Prefarmed Line Past Insulator Tap Tie far Merlin ACSR	20-SDMS-02	Fig. 35
12	4 Set	Prefarmed Line Past Insulatar Tap Tie far Quail	20-SDMS-02	Fig. 35
13	4	Strain Clamp, Straight Line Deadend Type far Quadruplex	20-SDMS-02	Fig. 30
14	2	Strain Clamp, Straight Line Deadend Type far Quail ACSR	20-SDMS-02	Fig. 30
15	1	Shaulder Eye Balt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
17	1	Shoulder Eye Balt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
18	1	Shaulder Eye Balt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
19	2	Eye Nut, M16	20-SDMS-02	Fig. 16
20	18	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
21	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Balt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Balt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
26	1	Machine Balt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
27	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
28	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-SDMS-02	Fig. 39
29	2	Earthwire Suspensian Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transfarmer, 200KVA.	51-SDMS-01	
31	3	Fuse Cut-Out (Camplete Assembly)	34-SDMS-01	
32	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
33	9	Terminal Lug far 35mm2 Cu.	12-SDMS-02	
34	3	Surge Arrester, 33kV	35-SDMS-01	
35	15M	70mm2 Capper Bare Canductar		
36	21M	Quail Canductar, 67.44mm2 ACSR/AW	10-SDMS-01	
37	9М	Cu. Canductar, Insulated stranded 35mm2 Saft Drawn	11-SDMS-01	

DRW.14A1/3-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	REFERENCES	
38	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02		
39	13	Terminal Lugs far 70mm2, Cu.	12-S0MS-01		
40	2	Crimpit Cu. Cannectar Far 70mm2.	20-S0MS-02	Fig. 45	
41	1	Graund Wire Guard	20-S0MS-02	Fig. 47	
42	4	Suspension Insulator (Single)	15-S0MS-01	Page.23	
43	10	Clevis Eye Extension	20-S0MS-02	Fig. 21	
44	15M	Stoinless Steel Strop Bond	20-S0MS-02	Fig. 55	
45	20	Buckle for Stoinless Steel Strap Band	20-SDMS-02	Fig. 55	
46	1	P.M.T. Cabinet 800A.	31-S0MS-03		
47	6M	Coble Aluminium— 4x300mm2 Main Incoming	11-S0MS-01		
48	4	Coble Tie	20-SDMS-02	Fig. 63	
49	12	Insulated Type Sleeve far Connecting Quadruplex 120mm2—120mm2	20-S0MS-02	Fig. 34	
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53	
51	6	Phasing Plates Maunting Brackets	20-S0MS-02	Fig. 54	
52	6М	Rigid PVC Sleeve for Stoinless Steel Strop	20-S0MS-02	Fig. 55	
53	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness			
54	4	Weather Head, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02		
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Coble.	20-SDMS-02		
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D far 4x300mm2 Incoming Cable.	20-SDMS-02		
57	36M	Quadruplex Coble, 120mm2	11-S0MS-02		
58	1	Bi-Metalic cannector, 2Balts type for 70mm2 Cu70mm2 Al.	20-S0MS-02		
59	4	Bi-Metalic connector, 2Bolts type for 70mm2 Cu120mm2 Al.	20-S0MS-02		
60	36M	Cu. Canductar, Insulated stranded 70mm2 Saft Drawn	11-S0MS-01		
61	6 Set	Suspension Insulator	15-S0MS-01	Page. 2	
62	6	Anchor Shackle	20-S0MS-02	Fig. 20	
63	3	Double Arming Plate, 100x12x700mm Lg.	20-S0MS-02	Fig. 07	
64	6	Strain Clamp, 3U-Balts type far Merlin	20-S0MS-02	Fig. 29	
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Orw. 31	
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	S0CS-01	Orw. 31	
67	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 31	
68	28M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	S0CS-01		
69	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	S0CS-01		
70	2 Set	Danger Sign Plate Camplete With Its Accessories	20-S0MS-02	Fig. 49	
71	2 Set	Danger Sign Maunting Brackets	20-SOMS-02	Fig. 50	
72	29М	Anti-Climbing Divice, Borbed Wire	20-S0MS-02	Fig. 13	
73	4	Buckle Type, Locking Clip for Borbed Wire	20-S0MS-02	Fig. 13	

DRW.14A2/3-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



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#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

			DATE: DECEMB	5K 2000G	
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFEREN	ICES
74	16	Terminal Lugs far Cable 4X300mm2 Al.		12-SDMS-02	Fig. 4
75	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.		12-SDMS-02	Fig. 4
76	1	Pale Numbering Base Plate		20-SDMS-02	Fig. 51
77	1 Set	Pale Numbering Plates		20-SDMS-02	Fig. 51
78	1	Equipment Numbering Base Plate		20-SDMS-02	Fig. 52
79	1 Set	Equipment Numbering Plates		20-SDMS-02	Fig. 52
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DRW.14A3/3-200kVA TRANSFORMER PLATFORM, 14M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



### الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-S0MS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-SDMS-01	Poge 33
03	5	Crossorm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Chonnel-C 125x65x65x6x2400mm L.G.	20-S0MS-02	Fig. 2
05	2	Transformer Mounting Chonnel—C 150x75x75x6.5x2400mm L.G.	20-S0MS-02	Fig. 3
06	2	Broce-L 50x50x4x828mm L.G.	20-S0MS-02	Fig. 4
07	2	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-S0MS-02	Fig. 4
08	6	Line Post Insulotor	15-S0MS-01	Clause 4.2.8
09	3	Porollel Groove Compression Connecter for 170.5mm2 ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
10	1	Porollel Groove Compression Connecter for 67.44mm2 ACSR/AW (Quail-Quail)	20-S0MS-02	Fig. 39
11	2 Set	Preformed Line Post Insulotor Top Tie for Merlin ACSR	20-S0MS-02	Fig. 35
12	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	20-S0MS-02	Fig. 35
13	4	Stroin Clamp, Stroight Line Deodend Type for Quadruplex	20-S0MS-02	Fig. 30
14	2	Strain Clomp, Stroight Line Deadend Type for Quoil ACSR	20-S0MS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-S0MS-02	Fig. 16
16	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
17	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
18	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-S0MS-02	Fig. 16
19	2	Eye Nut, M16	20-S0MS-02	Fig. 16
20	18	Mochine Bolt, M20x60mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 14
21	2	Mochine Bolt, M20x225mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
22	2	Mochine Bolt, M20x285mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
23	1	Mochine Bolt, M20x365mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
24	2	Mochine Bolt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Wosher	20-S0MS-02	Fig. 15
25	2	Machine Bolt, M16x165mm With Nut, 2 Flot Washers & 1 Spring Washer	20-S0MS-02	Fig. 15
26	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
27	2	Mochine Bolt, M16x300mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
28	3	Porollel Groove Compression Connector for Merlin - Quoil	20-S0MS-02	Fig. 39
29	2	Eorthwire Suspension Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
30	1	Transformer, 300KVA	51-S0MS-01	
31	3	Fuse Cut-Out (Complete Assembly)	34-S0MS-01	
32	3	Terminal Plug For 67.44mm2 ACSR/AW (Quoil)	20-S0MS-02	Fig. 42
33	9	Terminal Lug for 35mm2 Cu.	20-S0MS-02	Fig. 46
34	3	Surge Arrester, 33kV	35-S0MS-01	
35	15M	70mm2 Copper Bore Conductor		
36	21M	Quail Conductor, 67.44mm2 ACSR/AW	10-S0MS-01	
37	9м	Cu. Conductor, Insuloted stronded 35mm2 Soft Drown	11-S0MS-01	

DRW.14B1/3-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO. BILL OF MATERIALS DESCRIPTION		BILL OF MATERIALS DESCRIPTION	REFERE	REFERENCES	
38	3	35mm2 Cu. Flexible Cared Wire with Lugs	20-SDMS-02		
39	13	Terminal Lugs far 70mm2, Cu.	12-S0MS-01		
40	2	Crimpit Cu. Cannectar Far 70mm2.	20-S0MS-02	Fig. 45	
41	1	Graund Wire Guard	20-S0MS-02	Fig. 47	
42	4	Suspension Insulator (Single)	15-S0MS-01	Page.23	
43	10	Clevis Eye Extension	20-S0MS-02	Fig. 21	
44	15M	Stoinless Steel Strap Band	20-S0MS-02	Fig. 55	
45	20	Buckle far Stainless Steel Strap Band	20-SDMS-02	Fig. 55	
46	1	P.M.T. Cabinet 800A.	31-S0MS-03	·	
47	6М	Cable Aluminium— 4x300mm2 Main Incoming	11-S0MS-01		
48	4	Cable Tie	20-SDMS-02	Fig. 63	
49	12	Insulated Type Sleeve for Connecting Quadruplex 120mm2-120mm2	20-S0MS-02	Fig. 34	
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53	
51	6	Phasing Plates Maunting Brackets	20-S0MS-02	Fig. 54	
52	6М	Rigid PVC Sleeve for Stainless Steel Strop	20-S0MS-02	Fig. 55	
53	4	Palyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness			
54	4	Weather Head, Al. far 70mm O.D. PVC Rigid Pipe	20-SDMS-02		
55	4	Flexible Pipe, 2.5 Mtrs., 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02		
56	2	Flexible Pipe, 2 Mtrs., 75mm I.D far 4x300mm2 Incoming Cable.	20-SDMS-02		
57	36M	Quadruplex Cable, 120mm2	11-S0MS-02		
58	1	Bi-Metalic cannector, 2Balts type for 70mm2 Cu70mm2 Al.	20-S0MS-02		
59	4	Bi-Metalic cannector, 2Balts type for 70mm2 Cu120mm2 Al.	20-S0MS-02		
60	36M	Cu. Canductar, Insulated stranded 70mm2 Saft Drawn	11-S0MS-01		
61	6 Set	Suspension Insulator	15-S0MS-01	Page. 2	
62	6	Anchar Shackle	20-S0MS-02	Fig. 20	
63	3	Double Arming Plate, 100x12x700mm Lg.	20-S0MS-02	Fig. 07	
64	6	Strain Clamp, 3U-Balts type far Merlin	20-S0MS-02	Fig. 29	
65	1 Set	L.T One Stay Assembly (Optional)	SDCS-01	Orw. 31	
66	1 Set	L.T One Stay Assembly On PMT-Structure/200	S0CS-01	Orw. 31	
67	1 Set	M.V-S.C Two Stoy Assembly	S0CS-01	Orw. 31	
68	28M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01		
69	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	S0CS-01		
70	2 Set	Danger Sign Plate Camplete With Its Accessories	20-S0MS-02	Fig. 49	
71	2 Set	Danger Sign Maunting Brackets	20-S0MS-02	Fig. 50	
72	29М	Anti-Climbing Divice, Barbed Wire	20-S0MS-02	Fig. 13	
73	4	Buckle Type, Lacking Clip for Barbed Wire	20-S0MS-02	Fig. 13	

DRW.14B2/3-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



# الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

			DATE: DECEMBE			
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERENCES		
74	16	Terminal Lugs far Cable 4X300mm2 Al.	1	2-SDMS-02	Fig. 4	
75	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.	1	2-SDMS-02	Fig. 4	
76	1	Pale Numbering Base Plate	2	20-SDMS-02	Fig. 51	
77	1 Set	Pale Numbering Plates	2	20-SDMS-02	Fig. 51	
78	1	Equipment Numbering Base Plate	2	20-SDMS-02	Fig. 52	
79	1 Set	Equipment Numbering Plates	2	20-SDMS-02	Fig. 52	
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DRW.14B3/3-300kVA TRANSFORMER PLATFORM, 14M MV & 10M LV MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

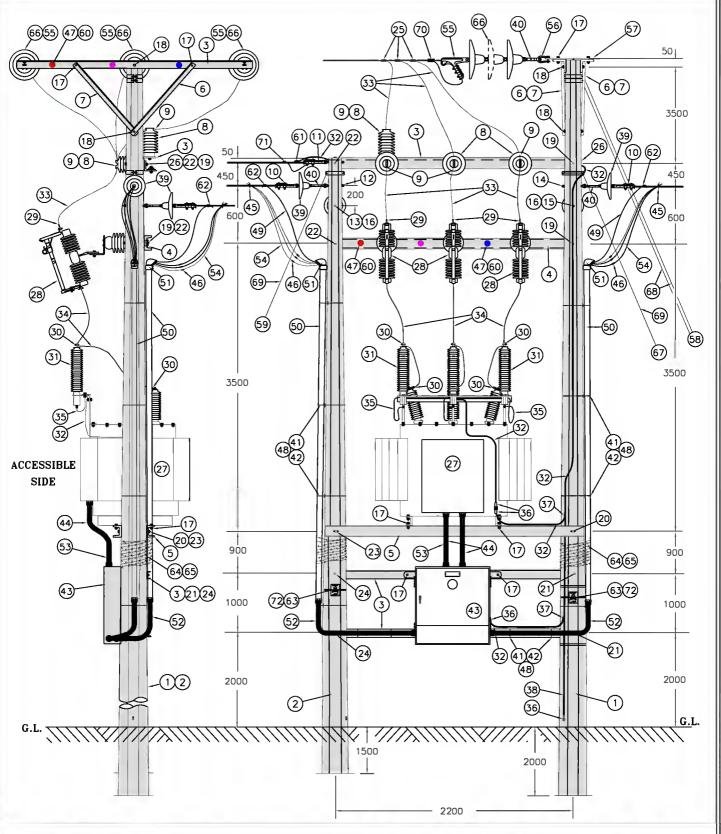


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DRW.15-200/300kVA TRANSFORMER PLATFORM-14M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET

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## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-S0MS-01	Page 36
02	1	OC10-10 Meter Steel Pole, HDG, LV Single Circuit	20-S0MS-01	Page 33
03	5	Crossorm-L 100x100x12x2400mm L.G.	20-S0MS-02	Fig. 1
04	1	Fuse Cut-Out Mounting Chonnel-C 125x65x65x6x2400mm L.G.	20-S0MS-02	Fig. 2
05	2	Transformer Mounting Chonnel-C 150x75x75x6.5x2400mm L.G.	20-S0MS-02	Fig. 3
06	2	Broce-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	4	Line Post Insulotor	15-SDMS-01	Clause 4.2.8
09	4 Set	Preformed Line Post Insulotor Top Tie for Quoil	20-S0MS-02	Fig. 35
10	4	Stroin Clomp, Stroight Line Deodend Type for Quodruplex	20-S0MS-02	Fig. 30
11	1	Stroin Clamp, Stroight Line Deadend Type for Quoil ACSR	20-S0MS-02	Fig. 30
12	1	Shoulder Eye Bolt, M16x155mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-S0MS-02	Fig. 16
13	1	Shoulder Eye Bolt, M16x180mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-S0MS-02	Fig. 16
14	1	Shoulder Eye Bolt, M16x275mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-S0MS-02	Fig. 16
15	1	Shoulder Eye Bolt, M16x310mm W/Nut, 1 Flot Wosher & 1 Spring Wosher	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-S0MS-02	Fig. 18
17	18	Mochine Bolt, M20x60mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 14
18	2	Mochine Bolt, M20x225mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
19	2	Mochine Bolt, M20x285mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
20	1	Mochine Bolt, M20x365mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-SDMS-02	Fig. 15
21	2	Mochine Bolt, M20x400mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
22	2	Mochine Bolt, M16x165mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
23	1	Mochine Bolt, M16x275mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
24	2	Mochine Bolt, M16x300mm With Nut, 2 Flot Woshers & 1 Spring Wosher	20-S0MS-02	Fig. 15
25	3	Porollel Groove Compression Connector for Merlin - Quoil	20-S0MS-02	Fig. 39
26	2	Eorthwire Suspension Support, L 110x110x10x150mm Lg.	20-S0MS-02	Fig. 5
27	1	Tronsformer, 200KVA.	51-S0MS-01	
28	3	Fuse Cut-Out (Complete Assembly)	34-S0MS-01	
29	3	Terminol Plug For 67.44mm2 ACSR/AW (Quoil)	20-S0MS-02	Fig. 42
30	9	Terminol Lug for 35mm2 Cu.	20-S0MS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-S0MS-01	
32	17M	70mm2 Copper Bore Conductor		
33	21M	Quoil Conductor, 67.44mm2 ACSR/AW	10-S0MS-01	
34	9м	Cu. Conductor, Insuloted Stronded 35mm2 Soft Drown	11-S0MS-01	
35	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-S0MS-02	
36	13	Terminol Lug for 70mm2 Cu.	12-S0MS-01	
37	2	Crimpit Cu. Connector for 70mm2	20-S0MS-02	Fig. 45

DRW.15A1/3-200kVA TRANSFORMER PLATFORM-14M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERE	NCES
38	1	Graund Wire Guard	20-SDMS-02	Fig. 47
39	4	Suspension Insulator (Single)	15-S0MS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
42	20	Buckle for Stainless Steel Strop Band	20-SDMS-02	Fig. 55
43	1	P.M.T. Cabinet 800A	31-SDMS-03	
44	6М	Cable — 4x300mm2 Al. Main Incaming	11-SDMS-01	
45	4	Coble Tie	20-SDMS-02	Fig. 63
46	12	Insulated Type Sleeve far Cannecting Quadruplex 120mm2-120mm2	20-SDMS-02	Fig. 34
47	2 Set	Phasing Plates (A,B,C)	20-SDMS-02	Fig. 53
48	6М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
49	36M	Cu. Canductar Insulated, stranded 70mm2 Saft Drawn	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weather Head, Al. far 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Cable.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D far 4X300mm2 Incaming Cable	20-S0MS-02	
54	36M	Quadruplex Cable, 120mm2	11-SDMS-02	
55	3	Strain Clamp, 3 U-Balts far Merlin	20-SDMS-02	Fig. 29
56	3	Anchar Shackle	20-SDMS-02	Fig. 20
57	3	Dauble Arming Plate	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stay Assembly	S0CS-01	Drw. 313
59	1 Set	L.T One stay Assembly (Optional)	SDCS-01	Drw. 310
60	6	Phasing Plates Maunting Brackets	20-SDMS-02	Fig. 54
61	1	Bi-Mettalic Cannectar, 2 Balt Type far 70mm2 Cu70mm2 Al.	20-SDMS-02	
62	4	Bi-Mettalic Cannectar, 2 Balt Type far 70mm2 Cu120mm2 Al.	20-SDMS-02	
63	2 Set	Danger Sign Plate Camplete With Its Accessaries	20-SDMS-02	Fig. 49
64	29М	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Lacking Clip for Barbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulator	15-SDMS-01	
67	1 Set	L.T One stay Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
69	28M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65 Min. (Optional)	SDCS-01	
70	3	Parallel Graave Clamp for 3 U-Balts type for Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Parallel Graave Clamp for two Balts type for Quail ACSR	20-SDMS-02	Fig. 39
72	2 Set	Danger Sign Maunting Brackets	20-S0MS-02	Fig. 50

DRW.15A2/3-200kVA TRANSFORMER PLATFORM-14M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

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DATE	DECEMBER	20050
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		DATE: DECEMBER 2005G			
SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFEREN	ICES
73	1	Pale Numbering Base Plate		20-SDMS-02	Fig. 51
74	1 Set	Pale Numbering Plates		20-SDMS-02	Fig. 51
75	1	Equipment Numbering Base Plate		20-SDMS-02	Fig. 52
76	1 Set	Equipment Numbering Plates		20-SDMS-02	Fig. 52
77	16	Terminal Lugs for Cable 4X300mm2 Al.		12-SDMS-02	Fig. 4
78	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.		12-SDMS-02	Fig. 4
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DRW.15A3/3-200kVA TRANSFORMER PLATFORM-14M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S-14 Meter Steel Pale, HDG, Single Circuit	20-SDMS-01	Poge 36
02	1	OC10-10 Meter Steel Pale, HDG, LV Single Circuit	20-SDMS-01	Page 33
03	5	Crassarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
04	1	Fuse Cut—Out Maunting Channel—C 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig. 2
05	2	Transfarmer Maunting Channel—C 150x75x75x6.5x2400mm L.G.	20-SDMS-02	Fig. 3
06	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
07	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
08	4	Line Past Insulator	15-SDMS-01	Clause 4.2.8
09	4 Set	Prefarmed Line Past Insulatar Tap Tie far Quail	20-SDMS-02	Fig. 35
10	4	Strain Clamp, Straight Line Deadend Type far Quadruplex	20-SDMS-02	Fig. 30
11	1	Strain Clamp, Straight Line Deadend Type far Quail ACSR	20-SDMS-02	Fig. 30
12	1	Shaulder Eye Balt, M16x155mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
13	1	Shaulder Eye Balt, M16x180mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
14	1	Shaulder Eye Balt, M16x275mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
15	1	Shaulder Eye Balt, M16x310mm W/Nut, 1 Flat Washer & 1 Spring Washer	20-SDMS-02	Fig. 16
16	2	Eye Nut M16	20-SDMS-02	Fig. 18
17	18	Machine Balt, M20x60mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 14
18	2	Machine Balt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
19	2	Machine Balt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
20	1	Machine Balt, M20x365mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
21	2	Machine Balt, M20x400mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
22	2	Machine Balt, M16x165mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
23	1	Machine Balt, M16x275mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
24	2	Machine Balt, M16x300mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
25	3	Parallel Graave Campressian Cannectar far Merlin — Quail	20-SDMS-02	Fig. 39
26	2	Earthwire Suspensian Support, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 5
27	1	Transfarmer, 300KVA.	51-SDMS-01	
28	3	Fuse Cut—Out (Camplete Assembly)	34-SDMS-01	
29	3	Terminal Plug Far 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
30	9	Terminal Lug far 35mm2 Cu.	20-SDMS-02	Fig. 46
31	3	Surge Arrester, 33kV	35-SDMS-01	
32	17М	70mm2 Capper Bare Canductar		
33	21M	Quail Canductar, 67.44mm2 ACSR/AW	10-SDMS-01	
34	9м	Cu. Canductar, Insulated Stranded 35mm2 Saft Drawn	11-SDMS-01	
35	3	35mm2 Cu. Flexible Cared Wire with Lugs	20-SDMS-02	
36	13	Terminal Lug far 70mm2 Cu.	12-SDMS-01	
37	2	Crimpit Cu. Cannectar far 70mm2	20-SDMS-02	Fig. 45

DRW.15B1/3-300kVA TRANSFORMER PLATFORM-14M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL No.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
38	1	Ground Wire Guord	20-SDMS-02	Fig. 47
39	4	Suspension Insulotor (Single)	15-SOMS-01	
40	7	Clevis Eye Extension	20-SDMS-02	Fig. 21
41	15M	Stoinless Steel Strop Bond	20-SDMS-02	Fig. 55
42	20	Buckle for Stoinless Steel Strop Bond	20-SDMS-02	Fig. 55
43	1	P.M.T. Cobinet 800A	31-SDMS-03	
44	6М	Coble - 4x300mm2 Al. Moin Incoming	11-SDMS-01	
45	4	Coble Tie	20-SDMS-02	Fig. 63
46	12	Insuloted Type Sleeve for Connecting Quodruplex 120mm2-120mm2	20-SDMS-02	Fig. 34
47	2 Set	Phosing Plotes (A,B,C)	20-SDMS-02	Fig. 53
48	6М	Rigid PVC Sleeve for Stoinless Steel Strop	20-SDMS-02	Fig. 55
49	36M	Cu. Conductor Insuloted, stronded 70mm2 Soft Drown	11-SDMS-01	
50	4	Polyethelene Rigid Pipe, 3Mtrs. 70mm O.D. 3mm Thickness		
51	4	Weother Heod, Al. for 70mm O.D. PVC Rigid Pipe	20-SDMS-02	
52	4	Flexible Pipe, 2.5 Mtrs. 70mm O.D. PVC Rigid Pipe for Outgoing Coble.	20-SDMS-02	
53	2	Flexible Pipe, 2 Mtrs. 75mm I.D for 4X300mm2 Incoming Coble	20-S0MS-02	
54	36M	Quodruplex Coble, 120mm2	11-SDMS-02	
55	3	Stroin Clomp, 3 U-Bolts for Merlin	20-SDMS-02	Fig. 29
56	3	Anchor Shockle	20-SDMS-02	Fig. 20
57	3	Double Arming Plote	20-SDMS-02	Fig. 07
58	1 Set	M.V-S.C Two stoy Assembly	S0CS-01	Drw. 313
59	1 Set	L.T One stoy Assembly (Optionol)	SDCS-01	Drw. 310
60	6	Phosing Plotes Mounting Brockets	20-SDMS-02	Fig. 54
61	1	Bi-Mettolic Connector, 2 Bolt Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
62	4	Bi-Mettolic Connector, 2 Bolt Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
63	2 Set	Donger Sign Plote Complete With Its Accessories	20-SDMS-02	Fig. 49
64	29М	Anti-Climbing Device, Borbed Wire	20-SDMS-02	Fig. 13
65	4	Buckle Type, Locking Clip for Borbed Wire	20-SDMS-02	Fig. 13
66	3Set	Suspension Insulotor	15-SDMS-01	
67	1 Set	L.T One stoy Assembly On PMT-Structure/200	SDCS-01	Drw. 321
68	34M	Stoy wire 7/4, 12mm Dio, HDG Steel UTS 101kN Min.	SDCS-01	
69	28M	Stoy wire 7/3.25, 9.8mm Dio, HDG Steel UTS 65 Min. (Optionol)	SDCS-01	
70	3	Porollel Groove Clomp for 3 U-Bolts type for Merlin ACSR	20-SDMS-02	Fig. 39
71	1	Porollel Groove Clomp for two Bolts type for Quoil ACSR	20-SDMS-02	Fig. 39
72	2 Set	Donger Sign Mounting Brockets	20-S0MS-02	Fig. 50

DRW.15B2/3-300kVA TRANSFORMER PLATFORM-14M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION		REFERE	ICES
73	1	Pale Numbering Base Plate		20-SDMS-02	Fig. 51
74	1 Set	Pale Numbering Plates		20-SDMS-02	Fig. 51
75	1	Equipment Numbering Base Plate		20-SDMS-02	Fig. 52
76	1 Set	Equipment Numbering Plates		20-SDMS-02	Fig. 52
77	16	Terminal Lugs far Cable 4X300mm2 Al.		12-SDMS-02	Fig. 4
78	12	Terminal Lugs far Quadruplex Cable 4X120mm2 Al.		12-SDMS-02	Fig. 4
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DRW.15B3/3-300kVA TRANSFORMER PLATFORM-14M MV & 10M LV TERMINAL STRUCTURE WITH STAYS & PMT CABINET



الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

#### 50/100kVA PMT ON 12M POLE SINGLE POLE TRANSFORMER STRUCTURE

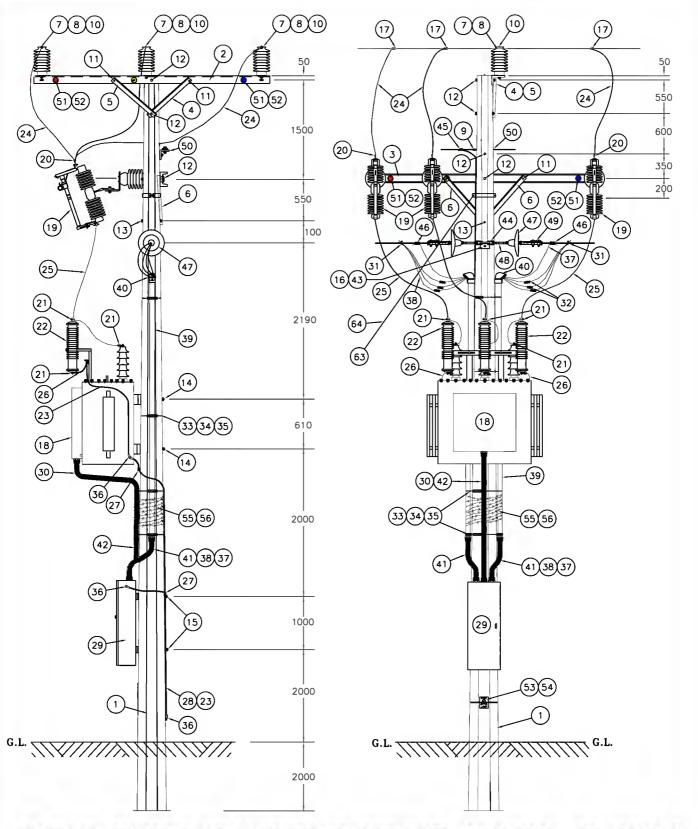


### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.180-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 12M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

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## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

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DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flot & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut—Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Cu. Bare Conductor		
24	15M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Cu. Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.180A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	CES
36	11	Terminal Lug 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2 Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm2 Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	2	Anchore Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
50	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
51	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 5
52	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
53	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
54	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
55	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
56	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
57	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
58	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
59	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
60	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
61	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
62	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
63	1 Set	L.T One Stay assembly On PMT—Structure/200 (Optional)	SDCS-01	Drw. 31
64	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	

DRW.180A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET TRSP1B



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100kVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Cu. Bare Conductor		
24	15M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Cu. Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.180B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	CES
36	11	Terminal Lug 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2 Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm2 Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	2	Anchore Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
50	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
51	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
52	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
53	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
54	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
55	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
56	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
57	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
58	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
59	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
60	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
61	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
62	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
63	1 Set	L.T One Stay assembly On PMT—Structure/200 (Optional)	SDCS-01	Drw. 310
64	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	

DRW.180B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET TRSP1B

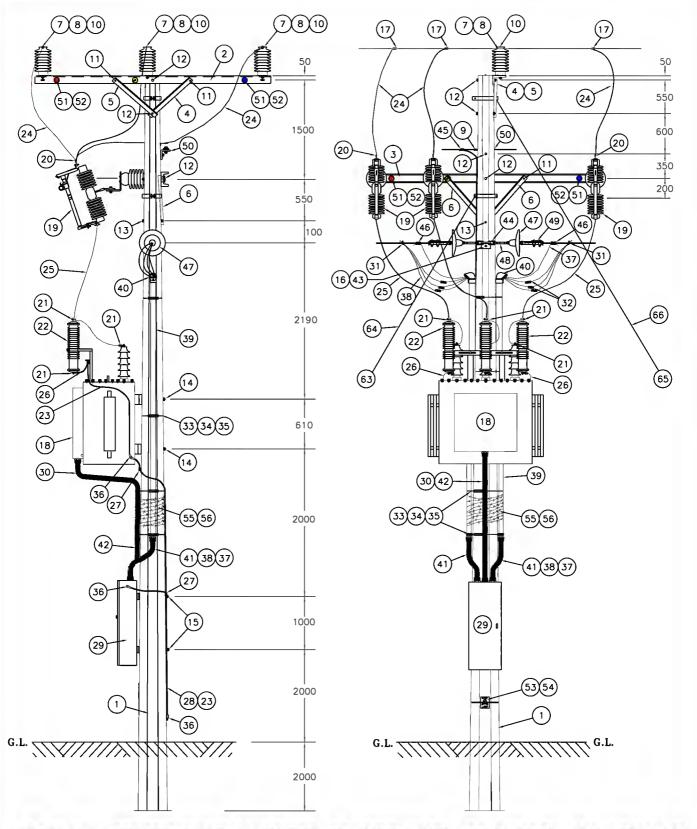


### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.181-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 12M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flot & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Cu. Bare Conductor		
24	15M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Cu. Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.181A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2 Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm2 Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	2	Anchore Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
50	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
51	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 5
52	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
53	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
54	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
55	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
56	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
57	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
58	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
59	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
60	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
61	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
62	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
63	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01	Drw. 31
64	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
65	1 Set	M.V-S.C One Stay assembly	SDCS-01	Drw. 31
66	15M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01	

DRW.181A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET TRSP1B



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flot & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut—Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Cu. Bare Conductor		
24	15M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Cu. Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
35	3	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-03	2

DRW.181B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	CES
36	11	Terminal Lug 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2 Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm2 Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	2	Anchore Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
50	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
51	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
52	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
53	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
54	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
55	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
56	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
57	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
58	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
59	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
60	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
61	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
62	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
63	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01	Drw. 31
64	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
65	1 Set	M.V-S.C One Stay assembly	SDCS-01	Drw. 31
66	15M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01	

DRW.181B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET TRSP1B

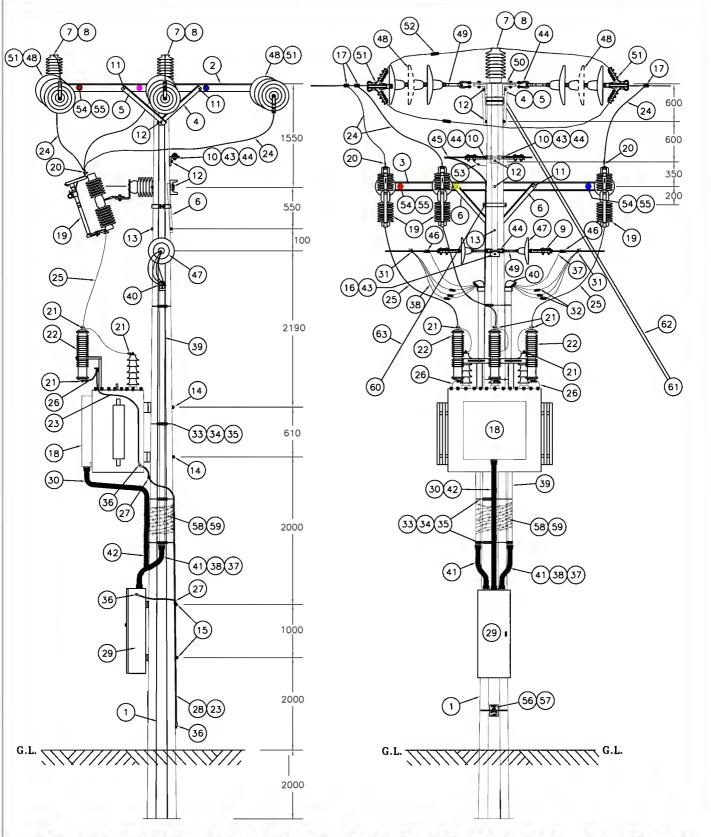


## الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.182-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 12M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	1CES
01	1	QC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut—Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Copper. Bare Conductor		
24	15M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Copper Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	ЗМ	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.182A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



### الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

Terminal Lug for 70mm2 Cu. Cable  M Copper Conductor Insulated Stranded 70mm2 Soft Drawn  M Quadruplex Cable 120mm2  Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness  Weather Head, Al. for 70mm O.D. PVC 3mm Thickness  Flexible Pipe, 1 Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable  Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable  Earth Wire Suspension Support  Anchor Shackle  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.  Suspension Insulator (Single)  et Suspension Insulator  Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	12-SDMS-02  11-SDMS-02  20-SDMS-02	Fig. 20  Clause 4.2.5 Clause 4.2.5 Fig. 21 Fig. 07
Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness  Weather Head, Al. for 70mm O.D. PVC 3mm Thickness  Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable  Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable  Earth Wire Suspension Support  Anchor Shackle  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.  Suspension Insulator (Single)  et Suspension Insulator  Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 15-SDMS-01 15-SDMS-01 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Clause 4.2.5 Clouse 4.2.5 Fig. 21 Fig. 07 Fig. 29 Fig. 39
Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness  Weather Head, Al. for 70mm O.D. PVC 3mm Thickness  Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable  Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable  Earth Wire Suspension Support  Anchor Shackle  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.  Suspension Insulator (Single)  et Suspension Insulator  Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phosing Plates (A,B,C).	20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 15-SDMS-01 15-SDMS-01 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Clause 4.2.5 Clause 4.2.5 Fig. 2: Fig. 0: Fig. 3:
Weather Head, Al. for 70mm 0.D. PVC 3mm Thickness  Flexible Pipe, 1Mtr. for 70mm 0.D. PVC Rigid Pipe for Outgoing Cable  Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable  Earth Wire Suspension Support  Anchor Shackle  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.  Suspension Insulator (Single)  et Suspension Insulator  Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 15-SDMS-01 15-SDMS-01 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Clause 4.2.5 Clause 4.2.5 Fig. 2: Fig. 0: Fig. 39
Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable  Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable  Earth Wire Suspension Support  Anchor Shackle  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.  Suspension Insulator (Single)  et Suspension Insulator  Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-01 15-SDMS-01 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Clause 4.2.5 Clause 4.2.5 Fig. 2 Fig. 0 Fig. 3:
Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable  Earth Wire Suspension Support  Anchor Shackle  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.  Suspension Insulator (Single)  et Suspension Insulator  Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 15-SDMS-01 15-SDMS-01 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Clause 4.2.5 Clause 4.2.5 Fig. 2 Fig. 0 Fig. 29 Fig. 39
Earth Wire Suspension Support  Anchor Shackle  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.  Suspension Insulator (Single)  et Suspension Insulator  Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 15-SDMS-01 15-SDMS-01 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Clause 4.2.5 Clause 4.2.5 Fig. 2 Fig. 0 Fig. 3:
Anchor Shackle  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.  Suspension Insulator (Single)  et Suspension Insulator  Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	20-SDMS-02 20-SDMS-02 20-SDMS-02 15-SDMS-01 15-SDMS-01 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Clause 4.2.5 Clause 4.2.5 Fig. 2 Fig. 0 Fig. 3:
Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.  Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.  Suspension Insulator (Single)  Et Suspension Insulator  Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	20-SDMS-02 20-SDMS-02 15-SDMS-01 15-SDMS-01 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Clouse 4.2.5 Clouse 4.2.5 Fig. 2 Fig. 0 Fig. 2: Fig. 3:
Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.  Suspension Insulator (Single)  et Suspension Insulator  Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	20-SDMS-02 15-SDMS-01 15-SDMS-01 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Clause 4.2.5 Fig. 2 Fig. 0 Fig. 29 Fig. 39
Suspension Insulator (Single)  et Suspension Insulator  Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	15-SDMS-01 15-SDMS-01 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Clause 4.2.5 Fig. 2 Fig. 0 Fig. 29 Fig. 39
ct Suspension Insulator  Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	15-SDMS-01 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Clause 4.2.5 Fig. 2 Fig. 0 Fig. 29 Fig. 39
Clevis Eye Extension  Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Clause 4.2.5 Fig. 2 Fig. 0 Fig. 29 Fig. 39
Double Arming Plate  Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	20-SDMS-02 20-SDMS-02 20-SDMS-02 20-SDMS-02	Fig. 2 <sup>o</sup> Fig. 2 <sup>o</sup> Fig. 2 <sup>o</sup> Fig. 3 <sup>o</sup>
Strain Clamp 3 U-Bolts type for Merlin  Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	20-SDMS-02 20-SDMS-02 20-SDMS-02	Fig. 29
Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)  Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)  et Phasing Plates (A,B,C).	20-SDMS-02 20-SDMS-02	Fig. 3
Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail) et Phasing Plates (A,B,C).	20-SDMS-02	
et Phasing Plates (A,B,C).		Fig. 3
	20-SDMS-02	
		Fig. 5
Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 5
et Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 4
et Danger Sign Mounting Brackets	20-SDMS-02	Fig. 5
Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 1.
Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 1.
et L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01	Drw. 32
et M.V-S.C Two Stay Assembly	SDCS-01	Drw. 31
Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01	
Pole Numbering Base Plate	20-SDMS-02	Fig. 5
et Pole Numbering Plates	20-SDMS-02	Fig. 5
Equipment Numbering Base Plate	20-SDMS-02	Fig. 5:
et Equipment Numbering Plates	20-SDMS-02	Fig. 5
Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
1 1	Buckle Type, Locking Clip for Barbed Wire  Set L.T One Stay Assembly On PMT -Structure/200 (Optional)  Set M.V-S.C Two Stay Assembly  Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.  Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)  Pole Numbering Base Plate  Set Pole Numbering Plates  Equipment Numbering Base Plate  Set Equipment Numbering Plates  Terminal Lugs for Cable 4X185mm2 Al.	Buckle Type, Locking Clip for Barbed Wire  20-SDMS-02  Set L.T One Stay Assembly On PMT -Structure/200 (Optional)  SDCS-01  Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.  SDCS-01  Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)  Pole Numbering Base Plate  Set Pole Numbering Plates  Equipment Numbering Base Plate  Set Equipment Numbering Plates  Terminal Lugs for Cable 4X185mm2 Al.  20-SDMS-02  12-SDMS-02

DRW.182A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut—Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Copper. Bare Conductor		
24	15M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9м	Copper Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.182B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



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#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug for 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Copper Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable	20-SDMS-02	
43	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 0
44	10	Anchor Shackle	20-SDMS-02	Fig. 2
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator (Single)	15-SDMS-01	Clouse 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02	Fig. 2
50	3	Double Arming Plate	20-SDMS-02	Fig. C
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02	Fig. 2
52	3	Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 3
53	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail-Quail)	20-SDMS-02	Fig. 3
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 5
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 5
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 4
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 5
58	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 1
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 1
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01	Drw. 3
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 3
62	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01	
64	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 5
65	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 5
66	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 5
67	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 5
68	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4

DRW.182B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

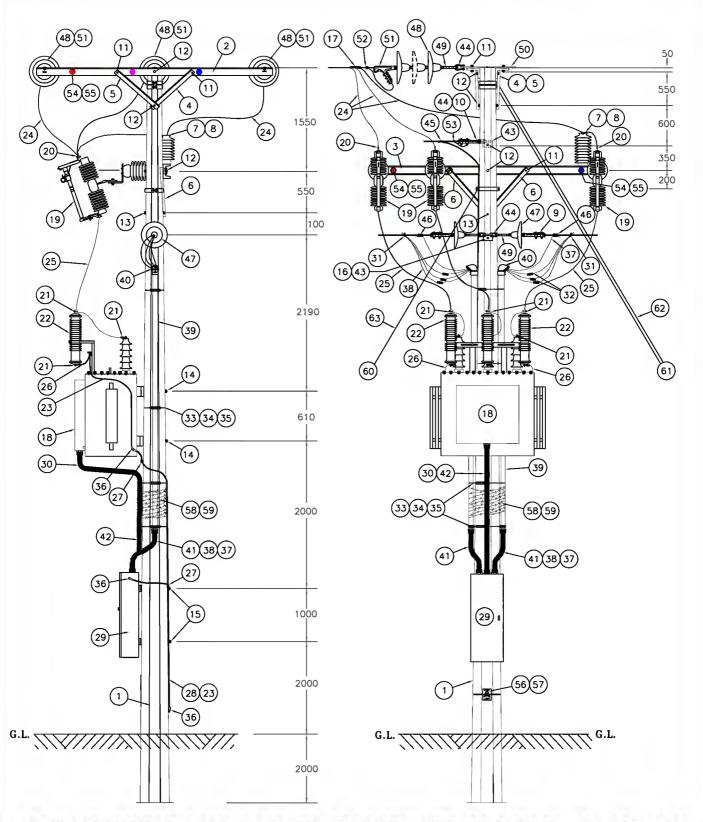


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DATE: DECEMBER 2005G



DRW.183-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 12M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	QC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	1 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut—Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Copper. Bare Conductor		
24	15M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Copper Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
Last I				

DRW.183A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug for 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Copper Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable	20-SDMS-02	
43	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	6	Anchor Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator (Single)	15-SDMS-01	Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02	Fig. 21
50	3	Double Arming Plate	20-SDMS-02	Fig. 07
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02	Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm2	20-SDMS-02	Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm2	20-SDMS-02	Fig. 39
54	2 Set	Phosing Plates (A,B,C).	20-SDMS-02	Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
58	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01	Drw. 32
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 31.
62	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01	
64	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
68	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4

DRW.183A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 12M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	QC12S-12 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	1	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	1 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	4	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	1	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut—Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Copper. Bare Conductor		
24	15M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Copper Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3м	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.183B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug for 70mm2 Cu. Cable	12-SDMS-02	
37	18М	Copper Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable	20-SDMS-02	
43	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 0
44	6	Anchor Shackle	20-SDMS-02	Fig. 2
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator (Single)	15-SDMS-01	Clause 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01	Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02	Fig. 2
50	3	Double Arming Plate	20-SDMS-02	Fig. 0
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02	Fig. 2
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm2	20-SDMS-02	Fig. 3
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm2	20-SDMS-02	Fig. 3
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 5
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 5
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 4
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 5
58	15M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 1
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 1
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01	Drw. 3
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-Q1	Drw. 3
62	29M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01	
64	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 5
65	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 5
66	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 5
67	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 5
68	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4

DRW.183B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 12M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET



الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

#### 50/100kVA PMT ON 13M POLE SINGLE POLE TRANSFORMER STRUCTURE

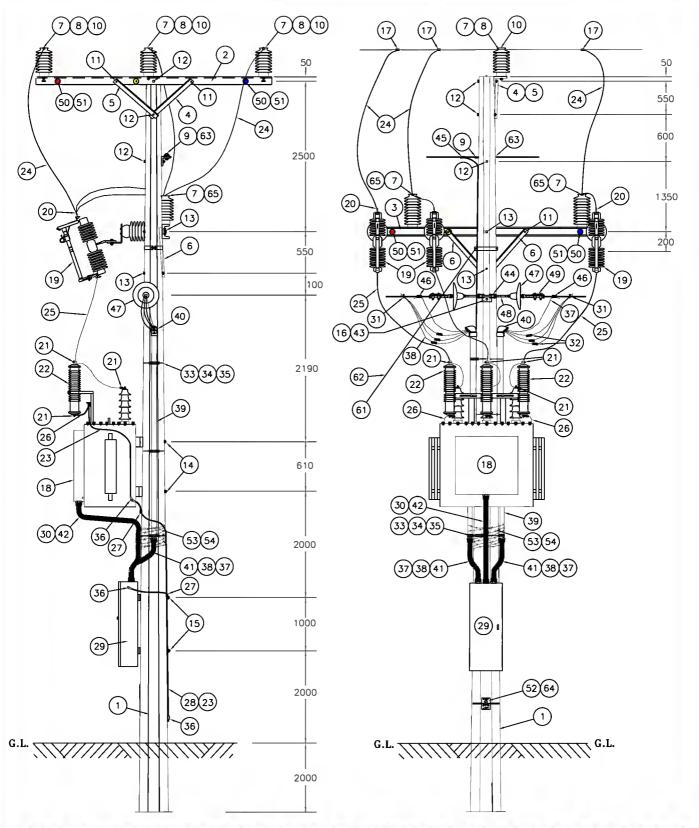


#### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.184-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 13M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL QTY		BILL OF MATERIALS DESCRIPTION		REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35	
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1	
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.	
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4	
05	1	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4	
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.	
07	5	Line Post Insulator	15-SDMS-01	Clouse 4.2.8	
08	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38	
09	1 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38	
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35	
11	4	Machine Bolt, M20x60mm With Nut, 2 Flot & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15	
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15	
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15	
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15	
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15	
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39	
18	1	Transformer, 50KVA	51-SDMS-01		
19	3	Fuse Cut—Out (Complete Assembly)	34-SDMS-01		
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42	
21	9	Terminal Lug for 35mm2 Cu.	12-SDMS-02	Fig. 1	
22	3	Surge Arrester	35-SDMS-01		
23	15M	70mm2 Cu. Bare Conductor			
24	18M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01		
25	9м	Cu. Conductor, Insulated Stranded 35mm2 Soft Drawn			
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02		
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45	
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47	
29	1	P.M.T. Cabinet 400A	31-SDMS-03		
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01		
31	2	Cable Tie	20-SDMS-02	Fig. 63	
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34	
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55	
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55	
35	3м	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55	

DRW.184A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
36	11	Terminal Lug 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2 Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm2 Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 0
44	2	Anchore Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 2
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 5.
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 5
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
53	16M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 1.
55	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 5
56	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 5
57	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 5
58	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
59	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01	Drw. 31
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
63	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
64	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
65	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
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DRW.184A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1B



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL QTY		BILL OF MATERIALS DESCRIPTION		REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35	
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1	
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.	
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4	
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4	
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.	
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8	
08	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38	
09	1 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38	
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35	
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15	
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15	
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15	
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15	
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15	
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15	
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39	
18	1	Transformer, 100kVA	51-SDMS-01		
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01		
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42	
21	9	Terminal Lug for 35mm2 Cu.	12-SDMS-02	Fig. 1	
22	3	Surge Arrester	35-SDMS-01		
23	15M	70mm2 Cu. Bare Conductor			
24	18M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01		
25	9М	Cu. Conductor, Insulated Stranded 35mm2 Soft Drawn			
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02		
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45	
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47	
29	1	P.M.T. Cobinet 400A	31-SDMS-03		
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01		
31	2	Cable Tie	20-SDMS-02	Fig. 63	
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2-120mm2	20-SDMS-02	Fig. 34	
33	10М	Stainless Steel Strap Band	20-SDMS-02	Fig. 55	
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55	
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55	

DRW.184B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
36	11	Terminal Lug 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2 Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm2 Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 0
44	2	Anchore Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Cannector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 2
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 5.
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 5
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 4
53	16M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 5
56	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 5
57	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
59	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
61	1 Set	L.T One Stay assembly On PMT—Structure/200 (Optional)	SDCS-01	Drw. 31
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
63	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
64	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
65	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35

DRW.184B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1B

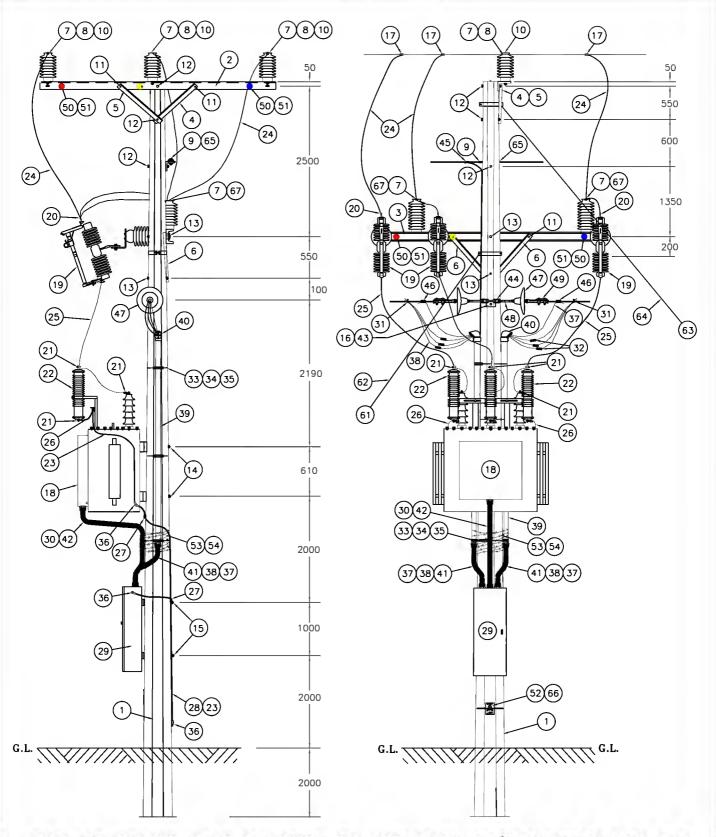


#### الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.185-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 13M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Cu. Bare Conductor		
24	18M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Cu. Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quodruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.185A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



## الشركة السعودية للكهرباء

#### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2 Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm2 Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 0
44	2	Anchore Shackle	20-SDMS-02	Fig. 2
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clause 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 2
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 3
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 5
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 5
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 4
53	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 1.
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 1.
55	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 5
56	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 5
57	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 5:
58	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 5
59	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/200 (Optional)	SDCS-01	Drw. 31
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
63	1 Set	M.V-S.C One Stay assembly	SDCS-01	Drw. 3
64	16M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01	
65	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
66	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
67	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35

DRW.185A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

		BILL OF MATERIALS DESCRIPTION	REFEREN	CES
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
80	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut—Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Cu. Bare Conductor		
24	18М	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Cu. Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2-120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.185B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2 Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm2 Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	2	Anchore Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
53	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
59	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
61	1 Set	L.T One Stay assembly On PMT—Structure/200 (Optional)	SDCS-01	Drw. 31
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
63	1 Set	M.V-S.C One Stay assembly	SDCS-01	Drw. 31
64	16M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01	
65	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
66	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
67	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35

DRW.185B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET TRSP1B

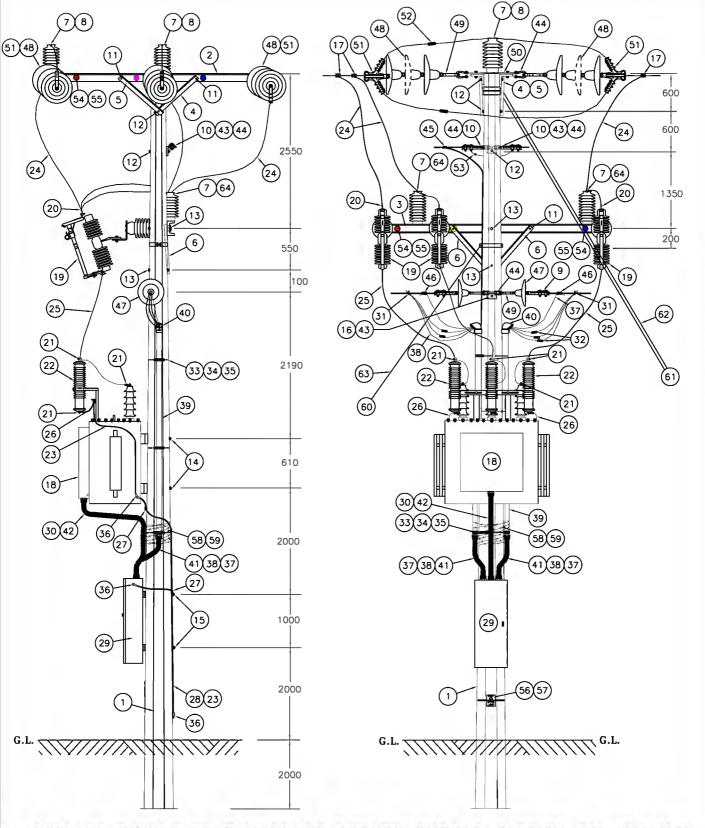


## الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.186-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 13M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Broce-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut—Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Copper. Bare Conductor		
24	18M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Copper Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	The state of the s
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3м	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.186A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
36	11	Terminal Lug for 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Copper Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable	20-SDMS-02	
43	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	10	Anchor Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator (Single)	15-SDMS-01	Clouse 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02	Fig. 21
50	3	Double Arming Plate	20-SDMS-02	Fig. 07
51	6	Strain Clamp 3 U—Bolts type for Merlin	20-SDMS-02	Fig. 29
52	3	Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail—Quail)	20-SDMS-02	Fig. 39
54	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
58	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01	Drw. 32
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 313
62	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01	
64	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
65	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
66	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
67	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
68	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
69	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
70	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4

DRW.186A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	4	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Copper. Bare Conductor		
24	18M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Copper Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.186B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug for 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Copper Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable	20-SDMS-02	
43	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	10	Anchor Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator (Single)	15-SDMS-01	Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01	Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02	Fig. 21
50	3	Double Arming Plate	20-SDMS-02	Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02	Fig. 29
52	3	Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail—Quail)	20-SDMS-02	Fig. 39
54	2 Set	Phosing Plates (A,B,C).	20-SDMS-02	Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
58	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01	Drw. 32
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 313
62	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01	
64	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
65	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
66	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
67	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
68	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
69	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
70	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4

DRW.186B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

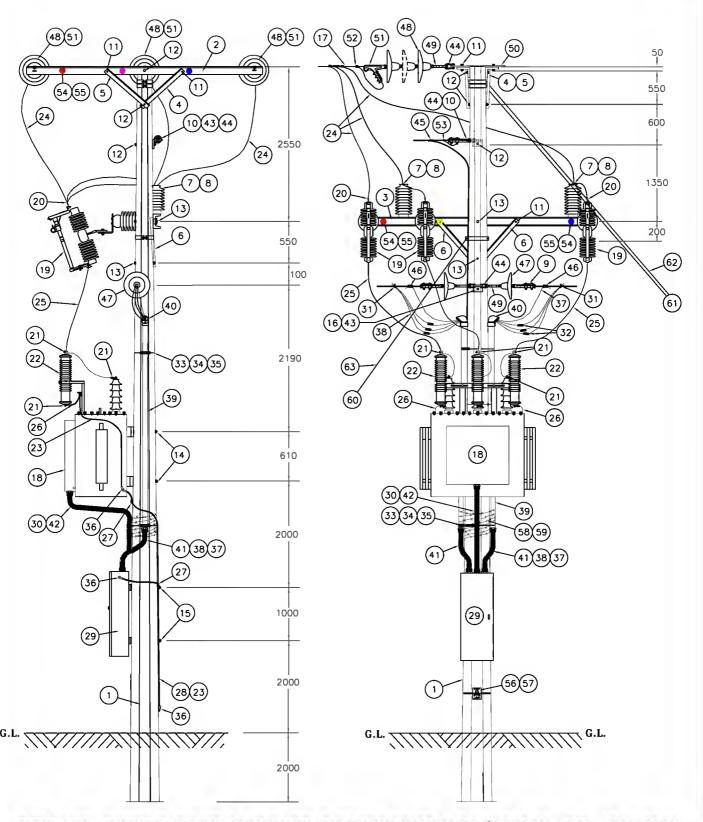


## الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.187-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 13M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Copper. Bare Conductor		
24	18M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Copper Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.187A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
1 Terminal Lug for 70mm2 Cu. Cable	12-SDMS-02	
BM Copper Conductor Insulated Stranded 70mm2 Soft Drawn		
8M Quadruplex Cable 120mm2	11-SDMS-02	
Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable	20-SDMS-02	
Earth Wire Suspension Support	20-SDMS-02	Fig. 05
Anchor Shackle	20-SDMS-02	Fig. 20
Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
Suspension Insulator (Single)	15-SDMS-01	Clouse 4.2.5
Set Suspension Insulator	15-SDMS-01	Clouse 4.2.5
Clevis Eye Extension	20-SDMS-02	Fig. 21
Double Arming Plate	20-SDMS-02	Fig. 07
Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02	Fig. 29
Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm2	20-SDMS-02	Fig. 39
Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm2	20-SDMS-02	Fig. 39
Set Phosing Plotes (A,B,C).	20-SDMS-02	Fig. 53
Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
Set Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
Set Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
Set L.T One Stay Assembly On PMT —Structure/200 (Optional)	SDCS-01	Drw. 32
Set M.V-S.C Two Stay Assembly	SDCS-01	Drw. 31.
Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01	
Pole Numbering Base Plate	20-SDMS-02	Fig. 51
Set Pole Numbering Plates	20-SDMS-02	Fig. 51
Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
Set Equipment Numbering Plates	20-SDMS-02	Fig. 52
Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
3 Termin	nal Lugs for Cable 4X185mm2 Al.	nal Lugs for Cable 4X185mm2 Al. 12-SDMS-02

DRW.187A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 13M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 34
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x265mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x325mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x380mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x275mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Copper. Bare Conductor		
24	18M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Copper Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3м	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.187B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug for 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Copper Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable	20-SDMS-02	
43	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	6	Anchor Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator (Single)	15-SDMS-01	Clouse 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02	Fig. 21
50	3	Double Arming Plate	20-SDMS-02	Fig. 07
51	3	Strain Clamp 3 U—Bolts type for Merlin	20-SDMS-02	Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm2	20-SDMS-02	Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm2	20-SDMS-02	Fig. 39
54	2 Set	Phosing Plotes (A,B,C).	20-SDMS-02	Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
58	16M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/200 (Optional)	SDCS-01	Drw. 32
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 31.
62	32M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01	
64	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
66	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
68	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4

DRW.187B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 13M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET



الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

## 50/100kVA PMT ON 14M POLE SINGLE POLE TRANSFORMER STRUCTURE

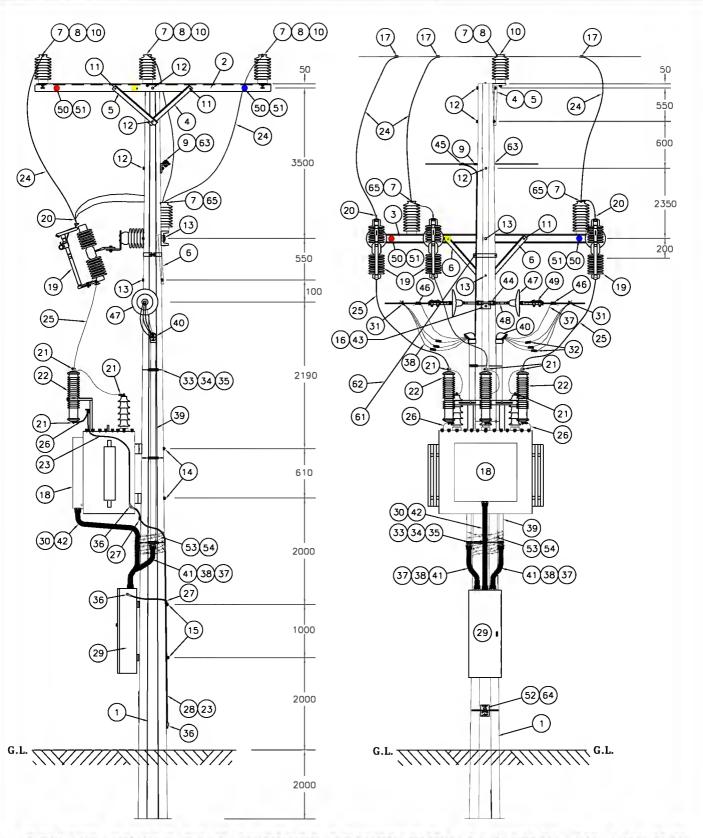


## الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.188-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 14M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20×365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Cu. Bare Conductor		
24	21M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Cu. Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2-120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3м	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.188A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2 Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm2 Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 0!
44	2	Anchore Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 2
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 3
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 5
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 5
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
53	17M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 1.
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 1.
55	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 5
56	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 5
57	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 5
58	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 5
59	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/240 (Optional)	SDCS-01	Drw. 31
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
63	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
64	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
65	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35

DRW.188A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET TRSP1B



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Top Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flot & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100kVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Cu. Bare Conductor		
24	21M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Cu. Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3м	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55
1				

DRW.188B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET

TRSP1A



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	CES
36	11	Terminal Lug 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2 Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm2 Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	2	Anchore Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
53	17M	Anti-Climbing Divice, Barbed Wire	20-SDMS-02	Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
59	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/240 (Optional)	SDCS-01	Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
63	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
64	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
65	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35

DRW.188B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V INTERMEDIATE STRUCTURE (0°-5°) WITH PMT CABINET TRSP1B

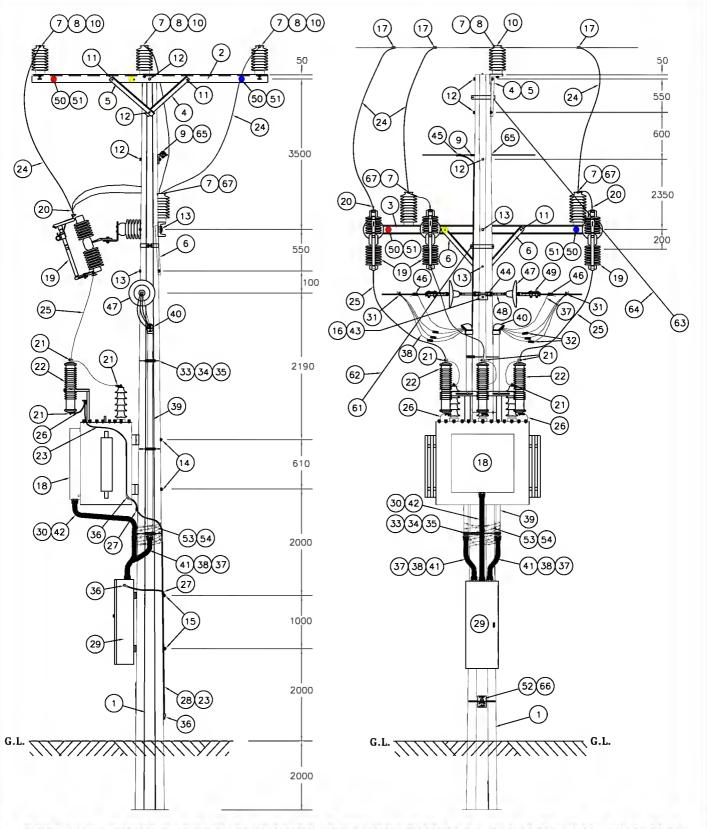


## الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.189-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 14M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut-Out Mounting Channel-Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
80	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flot & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Cu. Bare Conductor		
24	21M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Cu. Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10М	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.189A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2 Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm2 Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	2	Anchore Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
50	2 Set	Phosing Plotes (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
53	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
59	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/240 (Optional)	SDCS-01	Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
63	1 Set	M.V-S.C One Stay assembly	SDCS-01	Drw. 31:
64	17M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01	
65	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
66	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
67	2	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35

DRW.189A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET TRSP1B



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	1	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	1	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	1	Broce-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	5	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 38
09	1 Set	Preformed Armour Rod for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 38
10	3 Set	Preformed Line Post Insulator Side Tie for Merlin With Armour	20-SDMS-02	Fig. 35
11	4	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut—Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	12-SDMS-02	Fig. 1
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Cu. Bare Conductor		
24	21M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Cu. Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	ЗМ	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.189B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET

TRSP1A



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Cu. Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2 Al.	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs. 75mm I.D for 4x185mm2 Incoming Cable	20-SDMS-02	
43	1	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	2	Anchore Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
48	2	Clevis Eye Extension	20-SDMS-02	Fig. 21
49	2	Strain Clamp, Straight Line Deadend Type for Quadruplex	20-SDMS-02	Fig. 30
50	2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
51	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
52	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
53	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
54	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
55	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
56	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
57	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
58	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
59	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
60	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
61	1 Set	L.T One Stay assembly On PMT-Structure/240 (Optional)	SDCS-01	Drw. 310
62	13M	Stay wire 7/3.25, 9.8mm Dia, HDG steel, UTS 65kN Min. (Optional)	SDCS-01	
63	1 Set	M.V-S.C One Stay assembly	SDCS-01	Drw. 312
64	17M	Stay wire 7/4, 12mm Dia, HDG steel, UTS 101kN Min.	SDCS-01	
65	1	Earthwire Support Plate, L 110x110x10x150mm Lg.	20-SDMS-02	Fig. 6
66	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
67	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35

DRW.189B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V LIGHT ANGLE STRUCTURE (6°-15°) WITH PMT CABINET TRSP1B

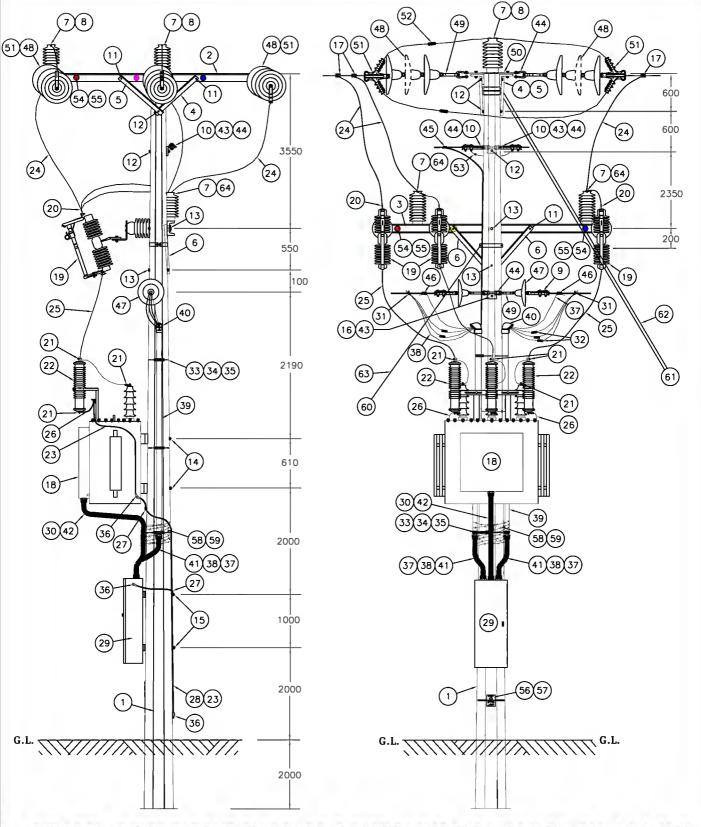


## الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G



DRW.190-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 14M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	NCES
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	4	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Copper. Bare Conductor		
24	21M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Copper Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3M	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.190A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug for 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Copper Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable	20-SDMS-02	
43	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	10	Anchor Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator (Single)	15-SDMS-01	Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01	Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02	Fig. 2
50	3	Double Arming Plate	20-SDMS-02	Fig. 0
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02	Fig. 29
52	3	Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail—Quail)	20-SDMS-02	Fig. 39
54	2 Set	Phosing Plates (A,B,C).	20-SDMS-02	Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 5
58	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 1.
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/240 (Optional)	SDCS-01	Drw. 32
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 31
62	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01	
64	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
65	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 5
66	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 5
67	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
68	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 5:
69	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
70	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4

DRW.190A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SUMS-02	Fig.
07	4	Line Post Insulator	15-SDMS-01	Clause 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Merlin ACSR	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	2	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20x285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Copper. Bare Conductor		
24	21M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Copper Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.190B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
36	11	Terminal Lug for 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Copper Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable	20-SDMS-02	
43	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	10	Anchor Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator (Single)	15-SDMS-01	Clause 4.2.5
48	6 Set	Suspension Insulator	15-SDMS-01	Clause 4.2.5
49	8	Clevis Eye Extension	20-SDMS-02	Fig. 21
50	3	Double Arming Plate	20-SDMS-02	Fig. 07
51	6	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02	Fig. 29
52	3	Parallel Groove Compression Connector for 170mm2 ACSR/AW (Merlin-Merlin)	20-SDMS-02	Fig. 39
53	1	Parallel Groove Compression Connector for 67.44mm2 ACSR/AW (Quail—Quail)	20-SDMS-02	Fig. 39
54	2 Set	Phosing Plates (A,B,C).	20-SDMS-02	Fig. 53
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
58	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
60	1 Set	L.T One Stay Assembly On PMT -Structure/240 (Optional)	SDCS-01	Drw. 32
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 313
62	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01	
64	2	Performed Line Post Insulator Top Tie for Quail	20-SDMS-02	Fig. 35
65	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
66	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
67	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
68	1 Set	Equipment Numbering Plotes	20-SDMS-02	Fig. 52
69	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
70	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4

DRW.190B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V MEDIUM & HEAVY ANGLE STRUCTURE (16°-90°) WITH PMT CABINET

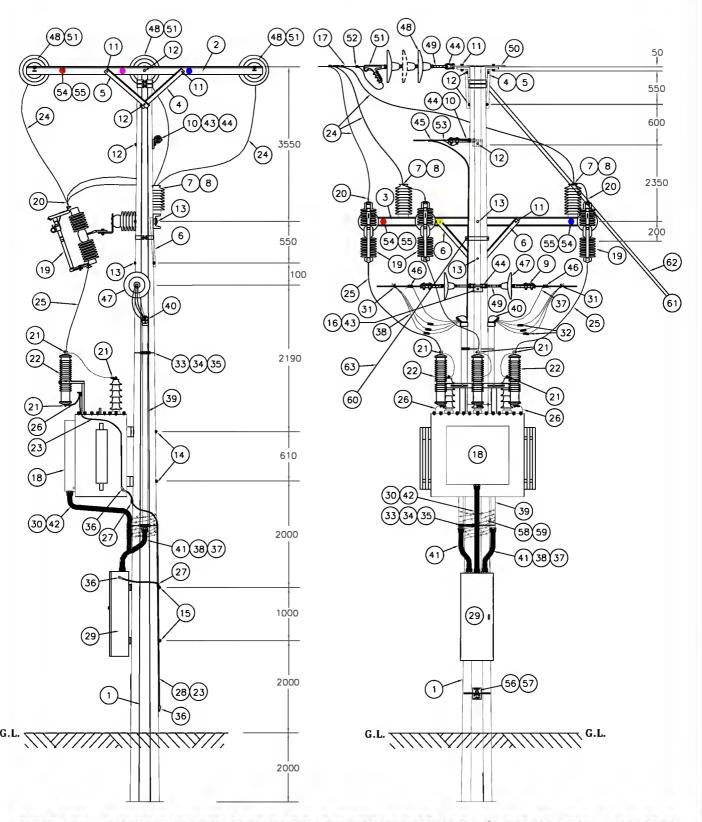


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SDCS-01

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DRW.191-SINGLE POLE MOUNTED TRANSFORMER 50/100kVA ON 14M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET

ALL DIMENSIONS ARE IN MILLIMETER



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFEREN	ICES
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 36
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SDMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20×285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 50KVA	51-SDMS-01	
19	3	Fuse Cut—Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminol Lug for 35mm2 Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Copper. Bare Conductor		
24	21M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Copper Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.191A1/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

11 18M	Terminal Lug for 70mm2 Cu. Cable		
18M		12-SDMS-02	
	Copper Conductor Insulated Stranded 70mm2 Soft Drawn		
18M	Quadruplex Cable 120mm2	11-SDMS-02	
2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable	20-SDMS-02	
2	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
6	Anchor Shockle	20-SDMS-02	Fig. 20
1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
2	Suspension Insulator (Single)	15-SDMS-01	Clouse 4.2.5
3 Set	Suspension Insulator	15-SDMS-01	Clouse 4.2.5
5	Clevis Eye Extension	20-SDMS-02	Fig. 21
3	Double Arming Plate	20-SDMS-02	Fig. 07
3	Strain Clamp 3 U—Bolts type for Merlin	20-SDMS-02	Fig. 29
3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm2	20-SDMS-02	Fig. 39
1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm2	20-SDMS-02	Fig. 39
2 Set	Phasing Plates (A,B,C).	20-SDMS-02	Fig. 53
6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 54
1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13
1 Set	L.T One Stay Assembly On PMT -Structure/240 (Optional)	SDCS-01	Drw. 32
1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 31
34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01	
1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 51
1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4
	2 1 2 6 1 2 3 Set 5 3 3 1 2 Set 6 1 Set	2 Weather Head, Al. for 70mm O.D. PVC 3mm Thickness 2 Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable 1 Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable 2 Earth Wire Suspension Support 6 Anchor Shackle 1 Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al. 2 Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al. 2 Suspension Insulator (Single) 3 Set Suspension Insulator 5 Clevis Eye Extension 3 Double Arming Plate 3 Strain Clamp 3 U-Bolts type for Merlin 3 Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm2 1 Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm2 2 Set Phosing Plates (A,B,C). 6 Phosing Plates Mounting Brackets. 1 Set Danger Sign Mounting Brackets 1 Set Danger Sign Mounting Brackets 1 TM Anti-Climbing Device, Barbed Wire 2 Buckle Type, Locking Clip for Barbed Wire 1 Set L.T One Stay Assembly On PMT -Structure/240 (Optional) 1 Set M.V-S.C Two Stay Assembly 34M Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min. 1 Pole Numbering Base Plate 1 Set Equipment Numbering Plates 1 Terminal Lugs for Cable 4X185mm2 Al.	2       Weother Head, Al. for 70mm O.D. PVC 3mm Thickness       20-S0M5-02         2       Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable       20-S0M5-02         1       Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable       20-S0M5-02         2       Earth Wire Suspension Support       20-S0M5-02         6       Anchor Shackle       20-S0M5-02         1       Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.       20-S0M5-02         2       Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.       20-S0M5-02         2       Suspension Insulator (Single)       15-S0M5-01         3       Stypension Insulator       15-S0M5-01         5       Clevis Eye Extension       20-S0M5-02         3       Double Arming Plate       20-S0M5-02         3       Strain Clamp 3 U-Bolts type for Merlin       20-S0M5-02         3       Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm2       20-S0M5-02         1       Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm2       20-S0M5-02         2       Set       Phasing Plates (A.B.C).       20-S0M5-02         5       Et       Danger Sign Plate Complete With Its Accessories       20-S0M5-02         1       Set       Danger Sign Mounting Brackets

DRW.191A2/2-SINGLE POLE MOUNTED TRANSFORMER 50kVA ON 14M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Poge 36
02	2	Crossarm-L 100x100x12x2400mm L.G.	20-SDMS-02	Fig. 1
03	1	Fuse Cut—Out Mounting Channel—Single Pole 125x65x65x6x2400mm L.G.	20-SDMS-02	Fig.
04	2	Brace-L 50x50x4x828mm L.G.	20-SDMS-02	Fig. 4
05	2	Brace-L 50x50x4x828mm L.G. With One End Clipped	20-SDMS-02	Fig. 4
06	2	Brace-L 50x50x4x828mm L.G. With Both End Clipped	20-SUMS-02	Fig.
07	2	Line Post Insulator	15-SDMS-01	Clouse 4.2.8
08	2 Set	Performed Line Post Insulator Top Tie for Quail.	20-SDMS-02	Fig. 35
09	2	Strain Clamp straight line deadend type for Quadruplex	20-SDMS-02	Fig. 30
10	1	Strain Clamp straight line deadend type for Quail ACSR	20-SDMS-02	Fig. 30
11	12	Machine Bolt, M20x60mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
12	3	Machine Bolt, M20x225mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
13	2	Machine Bolt, M20×285mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
14	2	Machine Bolt, M20x365mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
15	2	Machine Bolt, M20x400mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
16	1	Machine Bolt, M16x310mm With Nut, 2 Flat & 1 Spring Washer	20-SDMS-02	Fig. 15
17	3	Parallel Groove Compression Connector for Merlin — Quail	20-SDMS-02	Fig. 39
18	1	Transformer, 100KVA	51-SDMS-01	
19	3	Fuse Cut-Out (Complete Assembly)	34-SDMS-01	
20	3	Terminal Plug For 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 42
21	9	Terminal Lug for 35mm2 Cu.	20-SDMS-02	Fig. 46
22	3	Surge Arrester	35-SDMS-01	
23	15M	70mm2 Copper. Bare Conductor		
24	21M	Quail Conductor, 67.44mm2 ACSR/AW	10-SDMS-01	
25	9М	Copper Conductor, Insulated Stranded 35mm2 Soft Drawn		
26	3	35mm2 Cu. Flexible Cored Wire with Lugs	20-SDMS-02	
27	2	Crimpit Cu. Connector for 70mm2	20-SDMS-02	Fig. 45
28	1	Ground Wire Guard	20-SDMS-02	Fig. 47
29	1	P.M.T. Cabinet 400A	31-SDMS-03	
30	4M	Cable Al. — 4x185mm2 Main Incoming	11-SDMS-01	
31	2	Cable Tie	20-SDMS-02	Fig. 63
32	6	Insulated Type Sleeve for Connecting Quadruplex/120mm2—120mm2	20-SDMS-02	Fig. 34
33	10M	Stainless Steel Strap Band	20-SDMS-02	Fig. 55
34	10	Buckle for Stainless Steel Strap Band	20-SDMS-02	Fig. 55
35	3М	Rigid PVC Sleeve for Stainless Steel Strap	20-SDMS-02	Fig. 55

DRW.191B1/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET



# الشركة السعودية للكهرباء

### SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

DATE: DECEMBER 2005G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
36	11	Terminal Lug for 70mm2 Cu. Cable	12-SDMS-02	
37	18M	Copper Conductor Insulated Stranded 70mm2 Soft Drawn		
38	18M	Quadruplex Cable 120mm2	11-SDMS-02	
39	2	Polyethelene Rigid Pipe, 3 Mtrs. 70mm O.D. 3mm Thickness	20-SDMS-02	
40	2	Weather Head, Al. for 70mm O.D. PVC 3mm Thickness	20-SDMS-02	
41	2	Flexible Pipe, 1Mtr. for 70mm O.D. PVC Rigid Pipe for Outgoing Cable	20-SDMS-02	
42	1	Flexible Pipe, 4 Mtrs, 75mm ID. for 4x185mm2 Incoming Cable	20-SDMS-02	
43	2	Earth Wire Suspension Support	20-SDMS-02	Fig. 05
44	6	Anchor Shackle	20-SDMS-02	Fig. 20
45	1	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu70mm2 Al.	20-SDMS-02	
46	2	Bi-Metallic Connector, 2 Bolts Type for 70mm2 Cu120mm2 Al.	20-SDMS-02	
47	2	Suspension Insulator (Single)	15-SDMS-01	Clouse 4.2.5
48	3 Set	Suspension Insulator	15-SDMS-01	Clause 4.2.5
49	5	Clevis Eye Extension	20-SDMS-02	Fig. 2
50	3	Double Arming Plate	20-SDMS-02	Fig. 0
51	3	Strain Clamp 3 U-Bolts type for Merlin	20-SDMS-02	Fig. 29
52	3	Parallel Groove clamp 3 Bolts type for Merlin ACSR/AW 170mm2	20-SDMS-02	Fig. 39
53	1	Parallel Groove clamp 2 bolts type for Quail ACSR/AW 67.44mm2	20-SDMS-02	Fig. 39
54	2 Set	Phosing Plotes (A,B,C).	20-SDMS-02	Fig. 5.
55	6	Phasing Plates Mounting Brackets.	20-SDMS-02	Fig. 5
56	1 Set	Danger Sign Plate Complete With Its Accessories	20-SDMS-02	Fig. 49
57	1 Set	Danger Sign Mounting Brackets	20-SDMS-02	Fig. 50
58	17M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 1.
59	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 1.
60	1 Set	L.T One Stay Assembly On PMT -Structure/240 (Optional)	SDCS-01	Drw. 32
61	1 Set	M.V-S.C Two Stay Assembly	SDCS-01	Drw. 31
62	34M	Stay wire 7/4, 12mm Dia, HDG Steel UTS 101kN Min.	SDCS-01	
63	13M	Stay wire 7/3.25, 9.8mm Dia, HDG Steel UTS 65kN Min. (Optional)	SDCS-01	
64	1	Pole Numbering Base Plate	20-SDMS-02	Fig. 51
65	1 Set	Pole Numbering Plates	20-SDMS-02	Fig. 5
66	1	Equipment Numbering Base Plate	20-SDMS-02	Fig. 52
67	1 Set	Equipment Numbering Plates	20-SDMS-02	Fig. 52
68	8	Terminal Lugs for Cable 4X185mm2 Al.	12-SDMS-02	Fig. 4
69	6	Terminal Lugs for Quadruplex Cable 4X120mm2 Al.	12-SDMS-02	Fig. 4

DRW.191B2/2-SINGLE POLE MOUNTED TRANSFORMER 100kVA ON 14M M.V TERMINAL STRUCTURE WITH STAYS & PMT CABINET